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From page 21

**BEST
SELLER**

BMS 037 LED Microscope

- ✓ LED Illumination
- ✓ Classroom essential
- ✓ Battery powered

Code: MIB333010

Biology 9

Chemistry 34

Physics 55

Chemicals 89

Lab Equipment 103

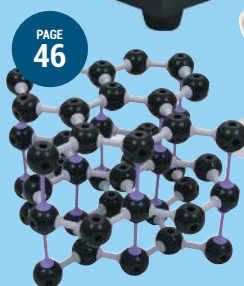
Labware 127

Data Logging 177

Storage 189

Safety 195

**GREAT
VALUE**
ON SCIENCE
EQUIPMENT



PAGE
46



PAGE
17

**PASCO
EXCLUSIVE
SUPPLIER**



PAGE
187

PROVIDING SCIENTIFIC AND LABORATORY EQUIPMENT TO SCHOOLS & UNIVERSITIES FOR OVER 65 YEARS

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Welcome to our NEW Education Catalogue

Introduction.....	5
How to Order.....	6
Meet Our Team.....	7
Our Services.....	8
Product Categories.....	9
Index	206
Terms & Conditions.....	210


SciChem
SERVING SCIENCE SUCCESSFULLY SINCE 1957

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From page 21

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Continuing to provide scientific supplies to schools and industry for over 65 years... and counting!



Since its founding in 1957, SciChem has been serving both education and industrial users of laboratory equipment, chemicals and services with a complete range of quality products, knowledgeable advice and worldwide delivery. The SciChem team is made up of a large number of professionals who have first hand experience of using the products that SciChem sell, so that when a recommendation is made, it is backed up with real-world experience.

SciChem Education supports science teachers and technicians to inspire tomorrow's scientists today with innovative, curriculum-relevant equipment and resources for the classroom and prep room. Our education catalogue is filled with quality products, exclusive ranges and budget friendly solutions that span Primary and Secondary Schools through to Higher Education and University.

We are delighted to bring back our Education Catalogue to help with all your scientific supplies for this new 2022 academic year and beyond. We're eager to help and assist with all aspects of your day-to-day teaching requirements and welcome any feedback to help improve and develop our services as we continue this next chapter in our history.

Whatever your budget, your need or request, we're here for you and we wish you all the very best for the year ahead... There's plenty more to come from SciChem!

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on orders over £75

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Products**

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Resources**

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Products**



All pricing and information correct at time of print 01/09/22 and subject to change. E & OE.

2022 UPDATE

Following the buy-out by Inivos Scientific in 2021, SciChem has been working through a business transformation programme that will continue into 2023 and is set to achieve rapid delivery of products, world-class customer service and renowned customer experience.

An exciting part of this is the acquisition of a new state-of-the-art warehouse facility. A £3m investment has brought back full control of stock which will result in faster delivery times and up-to-date ordering and tracking.

The positive experience of our customers is paramount to this new chapter for SciChem and we hope to share many more good-news stories and initiatives over the coming months, beginning with this new printed education catalogue and refreshed website!



60,000 sq ft at Northgate Park



Welcome to our new catalogue! We've got 1000's of products that are now even easier to order and track using a variety of new methods along with the more traditional:



Call **01902 402 402**



Email **sales@SciChem.com**



Order online 24/7 at **SciChem.com**

We've created a new website to enable a fast and user-friendly experience, enabling you to view and search for any product or item, view your order status and invoices.

- Create your log-in at SciChem.com
- View our whole range or search for a specific product
- Buy now or save your basket for later
- View your order status
- View your statements and invoices for payment



NEW Customer Portal

Following feedback from our customers we've launched our advanced Customer Ordering Portal.

Multiple account levels put you in control of the products you buy, who can buy and the money you spend.



Integrated Systems

Make ordering even easier by integrating our catalogue into your procurement system.

Used in many industries around the world, we've worked hard to bring you this advanced ordering technology.

Ordering

When placing an order over the phone, by fax or email, please ensure that you include the following information:

- Your account number or post code.
- Your delivery and invoice address.
- Your order number, contact name and telephone number.
- Product codes, quantities and/or pack sizes of all items ordered.
- If you are placing an order on the basis of a specific quotation, please include your unique "Quotation Reference Number".
- If you are following up an order placed by telephone or fax then please clearly mark this order "Confirmation Order".
- If an item is out-of-stock you can place this on back-order for delivery once it's available.

Payment

All items within this catalogue and online via SciChem.com can be purchased using your account credit terms or most major credit and debit cards (excluding American Express).

Delivery & Charges

UK mainland (including Northern Island and Isle of Wight): *FREE DELIVERY on orders over £75.00 (exclusive of VAT & Hazardous Chemical Delivery Surcharge). Orders below £75.00 are subject to a £4.95 carriage and packing charge.

Ireland, Isle of Man, Scottish Islands, Channel Islands and the Scilly Isles: FREE DELIVERY on orders over £200 (exclusive of VAT & Hazardous Chemical Delivery Surcharge £9.95). Orders below £200 are subject to a maximum £25.00 carriage and packing charge.

Hazardous Chemical Delivery Surcharge

Any orders containing a product marked "Surcharge" in our chemical section will have a £9.95 Hazardous Chemical Delivery Surcharge added. This surcharge is per order and not per item, i.e. you may order as many chemicals marked surcharge as you wish and only pay the one surcharge of £9.95.

Holiday Deliveries

When placing orders before school holidays, please specify whether you are able to receive deliveries during shut-down periods. We always assume schools are open for deliveries unless otherwise informed. Rejected deliveries may incur an extra delivery charge. Please include a contact name and telephone number on your order especially if different to your account details.

Returns Policy

If you need to return any item/goods, please contact our Customer Services team as soon as possible. All goods are to be returned with their original packaging and labelling if appropriate.

Goods ordered in error or goods returned in a damaged state will be subject to a restocking charge as stated below.

Restocking Charges

Items with a value of under £15.00 will incur a charge of £12.00. Items with a value of over £15.00 will incur a charge of 20% of the item price (with a minimum charge of £12.00).

Terms of Sale

- All prices are exclusive of VAT and whilst every effort is made to guarantee prices in this catalogue, we reserve the right to change prices without prior notice due to exchange rate volatility.
- We reserve the right to charge carriage and packing on certain large capital items. Please ask at time of ordering.
- All goods are supplied subject to our Standard Conditions of Sale.
- We input orders using our product codes. It is your responsibility to ensure the product codes you use are correct at time of ordering.
- Illustrations and descriptions contained within this catalogue are as representative as possible at the time of going to print, but some items may change appearance slightly from that depicted due to manufacturer's design or model changes.
- Full terms and conditions can be found on page 210 or online at SciChem.com/terms

PRODUCTS WORTH SHOUTING ABOUT

Throughout the 2022 education catalogue you'll notice a number of **NEW PRODUCTS** and **BEST SELLERS**.

These **BEST SELLERS** are the products most sought after and regularly ordered by our customers, making them an ideal, key everyday item for your school science department.

We've recently reviewed our product offering to ensure our stock list contains all the relevant curriculum-led equipment, consumables and lab accessories. We have added a number of **NEW PRODUCTS** that maintain both budget and high-end options to cater for all situations.

Look out for these icons throughout the catalogue!

NEW

**BEST
SELLER**



Meet Our Team!

It's been a busy few months at SciChem as we've built up our new team to help assist with customer needs and provide solutions. As you'll see, we have a number of new faces joining our sales and customer services team and some faces that you'll still remember.

Our friendly and dedicated UK-wide team are on-hand to help with all your customer queries including the following:

- Help and Advice
- Product Training
- Product Sourcing
- Account Management
- Stock & Supply
- Orders and Quotations
- Demonstrations
- Delivery Enquires
- Services



Give our team a call today on **01902 402 402**

Professional Waste Disposal Service

Using a responsible waste provider is very important. We offer schools and education partners a comprehensive and reliable waste disposal service for all chemicals and sharps that are dealt with safely, efficiently and within the law.

- ✓ Full Paperwork Trail
- ✓ Fully Compliant
- ✓ Bespoke Solutions
- ✓ Scheduled Collections
- ✓ Ad-hoc Request Services

For more details please contact
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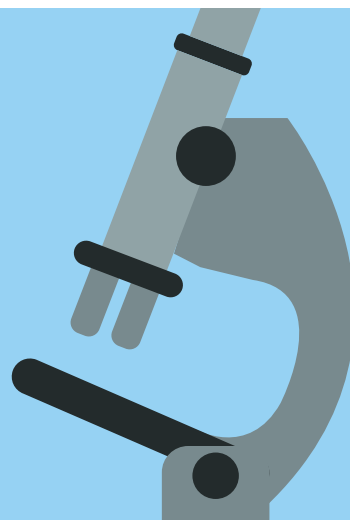
All paperwork should be retained as proof of suitable hazardous waste disposal.



School Science Lab Procurement

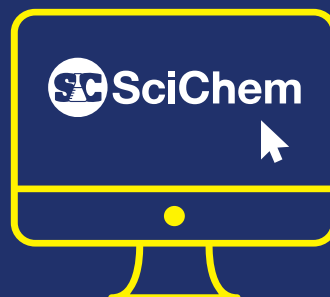
We can offer helpful advice, recommendations and quotations to aid with the setup and management of science labs in your school.

For more details please contact
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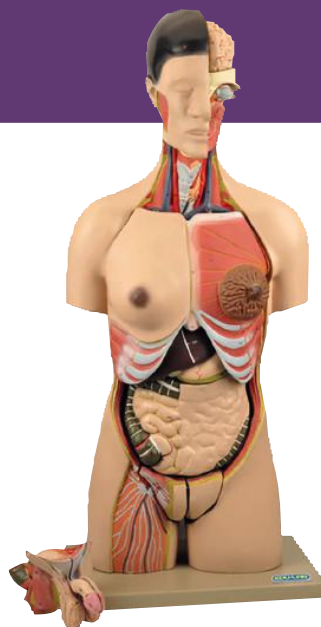


BIOLOGY

ANIMAL BIOLOGY	10	MICROSCOPES	21
DISSECTION	11	MICROSCOPES ACCESSORIES	24
ELECTROPHORESIS	13	MICROSCOPE-PREPARED SLIDES	25
ENVIRONMENT	15	MICROSLIDE VIEWER	29
ENZYMES	16	PLANT BIOLOGY	32
HUMAN BIOLOGY	17		
MICROBIOLOGY & CULTURES	20		



ANIMAL BIOLOGY



HUMAN BIOLOGY



MICROSCOPES



PLANT BIOLOGY

**PACK
OF 5**

Pooters Large

A valuable resource for science, purposely designed to assist the safe and easy collection of insects. Features include: large inter-changeable chamber, flexible collecting tube and safety ferrule on air extractor tube. Material: Plastic Length: 60 mm Width: 50 mm.

Code	Description	Price
YFS190011	Pack of 5	£21.85

Owl Pellet

Owl pellets are masses of undigested parts of food that owl species occasionally regurgitate. The contents of the owl pellet depends on its diet, but can include the exoskeletons of insects, indigestible plant matter, bones, fur, feathers, bills, claws, and teeth. Heat sterilized and individually wrapped. Small is less than 1.5" long, large is 1.5" or more in length.

Code	Description	Price
CBL360010	Large Owl Pellet (Each)	£9.49
CBL360020	Small Owl Pellet (Each)	£4.99



COMPARE RATES OF ABSORPTION

Respirometer

A compact unit for comparing rates of absorption or evolution of gases by small organisms during respiration. The apparatus consists of two stoppered boiling tubes connected by three way taps to either limb of a graduated manometer.

Code	Description	Price
B218	Respirometer	£35.41

For our full range of
biology equipment visit
SciChem.com



Insect Net with Extended Handle

Handy net with telescopic aluminium handles and knotless fine mesh, will not harm specimens. Safe and durable. Guaranteed not to run if holed.

Code	Description	Price
YNE120011	Insect Net	£9.86



Bugs Habitat

Handy pop-up habitat can be hung up or set on a table or shelf. It packs flat for storage and features a clear plastic zippered top, clear-view mesh sides, and a sturdy nylon floor. Ideal for butterflies and other insects.

✓ Size: 28 x 30cm (Dia x H)

Code	Description	Price
CBL150010	Bugs Habitat	£42.95



Respiration Apparatus

Apparatus for testing inhaled and exhaled air in small organisms. Comprises two boiling tube each with stopper and two lengths, one short and one long of 5mm glass tubing, connected by PVC tubing and plastic T.

Code	Description	Price
401-001	Respiration Apparatus	£14.64



Dissecting Instruments Set

Set of 14 stainless steel dissecting instruments in a canvas case.

Code	Description	Price
430-004	Dissection Instruments (Set of 14)	£21.81



Dissecting Tray with Wax

Aluminium tray supplied with wax. Size: 300 x 200 x 45mm.

Code	Description	Price
430-001	Dissecting Tray with Wax	£18.03

Expert Advice

Our experts are always happy to help, call on: **01902 402 402**



Dissecting Board

Wooden board. Size: 550 x 400 x 17mm.

Code	Description	Price
DSN010010	Wooden Board 550 x 400 x 17mm	£20.78



Dissection Specimen

- ✓ Free from abnormalities and disease
- ✓ Deep frozen within 24 hours of slaughter
- ✓ Free from preservatives or chemicals
- ✓ Vacuum packed
- ✓ By-products of the food industry
- ✓ Classified as Food Grade

**FREE FROM
PRESERVATIVES
& CHEMICALS**

Code	Description	Price
SEP110030	Sheep Hearts (Pack of 5)	£25.00
SEP110010	Sheep Eyes (Pack of 5)	£25.00
SEP110040	Sheep Skull Split in Two, Skinned (Each)	£41.95
SEP110050	Sheep Heart, Lung & Trachea (Pack of 2)	£34.88
SEP110080	Sheep Kidneys (Pack of 5)	£20.93
SEP120030	Pig Hearts (Pack of 5)	£25.00
SEP120050	Pig Kidneys (Pack of 5)	£17.44



**LARGER KIT AVAILABLE
UPON REQUEST**

Student Dissection Kit

Comes in a PVC roll with the following equipment:

- ✓ 1x 35mm scalpel
- ✓ 1x 45mm scalpel
- ✓ 2x Dissecting needles (wooden handles)
- ✓ 1x Seeker (wooden handle)
- ✓ 1x Blunt stainless steel forceps
- ✓ 1x Sharp stainless steel forceps
- ✓ 1x Fine point stainless steel scissors
- ✓ 1x Blunt point stainless steel scissors

Code	Description	Price
DSN250010	Student Dissection Kit (Set of 9)	£14.60



Dissecting Awl

Stainless steel spike in milled aluminium handle.
Length of spike 28mm.

Code	Description	Price
DSN020011	Dissecting Awl (Each)	£0.84



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Borrodaile Dissection Needle

125mm all stainless steel borrodaile needle.

Code	Description	Price
DSN190011	Borrodaile Needle	£1.58



Sharp Point Forceps

Sharp point, narrow flutes, with guide pin,
stainless steel.

Code	Description	Price
DSN230011	115mm Forceps	£1.10
DSN230021	125mm Forceps	£1.11



Straight Dissection Needle

120mm, straight, sharp, stainless steel needle
with either metal or non metal handle.

Code	Description	Price
DSN180011	Non Metal Handle	£0.38
DSN180021	Metal Handle	£1.15



Dissecting Seeker

Bent, blunt, stainless steel seeker with either
metal or non metal handle.

Code	Description	Price
DSN170011	Non Metal Handle	£0.44
DSN170021	Metal Handle	£1.15



Blunt End Forceps

Blunt end, narrow flutes, without guide pin,
stainless steel.

Code	Description	Price
DSN230051	115mm Forceps	£1.06
DSN230061	125mm Forceps	£1.10



Dissecting Scalpels

Solid forged stainless steel scalpels.

Code	Description	Price
DSN080011	Dissecting Scalpel with 30mm Blade	£2.19
DSN080021	Dissecting Scalpel with 35mm Blade	£2.19
DSN080031	Dissecting Scalpel with 45mm Blade	£2.19
DSN080041	Dissecting Scalpel with 50mm Blade	£2.19



**PACK
OF 10**

Blunt Tip Forceps

Pack of 10 quality stainless steel forceps, blunt
tip, 125mm long.

Code	Description	Price
DSN390010N	Pack of 10 Forceps	£11.25

Live Cultures & Specimens

When ordering living cultures or specimens please provide at least one weeks notice.
Specify your required by date along with the order and we will endeavour to deliver
the cultures a couple of days prior to this.

Cultures will work at their optimum between 1 and 2 weeks
after delivery but will last up to 2 months depending upon
the type. We recommend that cultures are refrigerated
to achieve maximum life.

To further extend the life of subcultures it is possible
to subculture using relevant media.

**Please contact our customer services team
on 01902 402 402 for further information.**



Exploring Electrophoresis and Forensics Kit

This technically simple experiment simulates the use of DNA in forensic investigations. Students cast agarose gels, load predigested DNA, and perform electrophoresis. They use the banding patterns of the DNA in the gel to compare the DNA fingerprints of 2 suspects with evidence and victim DNA.

Demonstration Kit includes materials for 2 demonstrations; Classroom Kit includes enough materials for 5 groups of students to perform the lab activity twice.

Refill includes reagents for performing the lab 10 times. The electrophoresis chambers and syringes required for the lab are not included with the refill.

**BEST
SELLER**



Code	Description	Price
CBL260020	Electrophoresis and Forensics Kit	£167.95
CBL260500	Electrophoresis and Forensics Refill	£336.00



Electrophoresis Lab Station

A complete system for introductory agarose gel electrophoresis studies. You can now economically outfit your classroom with the latest in electrophoresis technology.

Code	Description	Price
13-55-1110	Lab Station	£621.39

**SAFE AND
EASY-TO-USE**

EDGE Integrated Electrophoresis System

The EDGE™ Integrated Electrophoresis System revolutionizes biotechnology by merging an electrophoresis chamber, power supply and blue light into a single, safe and easy-to-use apparatus.

Code	Description	Price
460-002	Electrophoresis System	£299.95



Electrophoresis Power Supply

Three sets of output connectors, allowing the user to run up to three chambers simultaneously. LED screen, illuminated power switch, CE certification, overcurrent protected.

Code	Description	Price
605-004	Power Supply	£149.43

Solve a murder by simulating each step of the DNA fingerprinting protocol



DNA Murder Mystery Lab Investigation

A fun way to learn about a topical, revolutionary technology. Teach your class about the latest innovations in DNA technology and their application to forensic science.

Code	Description	Price
13-20-1023	DNA Lab Investigation	£209.50



Turning Genes On and Off Lab Investigation

Explore how genes respond to their environment Use a safe, commonly found microbe to investigate and predict the effect of temperature on gene regulation and expression.

Code	Description	Price
13-20-1093	Genes Lab Investigation	£86.88



Genes & Probability Lab Kit

Discover the fundamental principles of genetics. Study the patterns of inheritance and the genetic probability of easily observed and tested traits. Students use game-like exercises to explore gametogenesis and fertilization; monohybrid and dihybrid crosses; laws of dominance, segregation, and recombination; independent assortment and other key elements of this important and relevant topic.

Code	Description	Price
13-20-1163	Genes & Probability Kit	£82.53



DNA Forensics Lab Investigation

Your students will become forensic scientists as they apply the latest innovations in DNA technology to a scenario-based DNA murder mystery. They'll compare the electrophoretic results of DNA samples from a 'crime scene' with those from various suspects. Using a simplified DNA fingerprinting procedure, they'll then solve the crime based upon the fragment patterns revealed on the gel. In the process they'll learn the basic concepts of DNA fingerprinting as well as insight into why this revolutionary process is so accurate. They'll also get a 'hands-on' education on DNA structure and extraction, gel electrophoresis and autoradiography. This activity brings the 'real-world' applications of biotechnology to life and will simulate discussion on the ethical considerations associated with the use of cutting-edge technology. Contains materials for up to 40 students.

Code	Description	Price
13-20-3383	DNA Forensics Lab Investigation	£179.95

EASY TO CONSTRUCT



DNA Activity Model

Affordable, easy-to-understand, realistic replica of the 'molecule of life'. Your students will construct their own double helix model complete with cytosine, adenine, guanine and thymine nucleic acid bases; connecting phosphate strands; and a centre rod representing hydrogen bonds.

Code	Description	Price
14-30-1335	DNA Activity Model	£47.61



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products at
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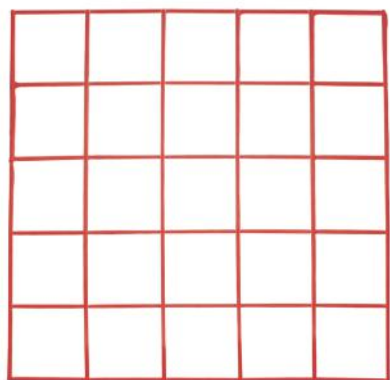


**PACK
OF 6**

Ranging Poles

2m traditional red and white metal core, plastic covered ranging poles, supplied as a set of 6.

Code	Description	Price
YSU070010	Set of 6 Ranging Poles	£113.74



Quadrat 25

Quadrats provide a simple but effective scientific method for the ecological surveying of vegetation or invertebrates in a wide range of habitats. The Q2 quadrat is made from heavy gauge steel wire with plastic coating to protect welds and make the quadrat visible.

Code	Description	Price
YFS230020	Quadrat (Each)	£22.95



**PACK
OF 5**

Soil Kit

The Soil Kit contains 5x 500g bags of different soil samples from the UK.

Code	Description	Price
YES235010N	Soil Kit (5 x 500g Bags)	£10.70



Soil Test Kit

Soil testing kit to test for pH, Nitrogen, Potassium (potash) and Phosphorous. Containing colour coded test tubes, reagents and colour cards.

Code	Description	Price
SOT170010	Soil Test Kit	£30.08

BEST SELLER



Water Monitoring Kit

A great introduction to any water quality monitoring investigation. This kit provides hands-on methods using TestTabs® for brackish, fresh or sea water.

Code	Description	Price
YFS710010	Water Monitoring Kit	£89.76

Expert Advice

Our experts are always happy to help, call on:
01902 402 402

Pocket Light Meter

This easy to use instrument offers compact design and robust construction. It is a precision luminance meter designed for environmental monitoring, health & safety checks, and industrial applications.

Code	Description	Price
MET020011	Pocket Light Meter	£54.59

Compact design
and robust
construction





Enzyme Biotechnology Kit

The development and application of new industrial enzymes is a major growth area in biotechnology. The use of micro-organisms which secrete large quantities of enzymes has in most cases replaced the more expensive traditional sources. The kit gives students an insight into the use of enzymes by industry.

Experiments include:

- ✓ Demonstration of pectinase in fruit juice production
- ✓ Rennet in cheese production
- ✓ Protease in meat tenderisers
- ✓ Enzymes in washing powders

**BEST
SELLER**

Code	Description	Price
410-011	Enzyme Biotechnology Kit	£63.95



Enzymes Set

A set comprising 8 x 10g tubes of the following enzymes: Amylase, Diastase, Invertase, Lipase, Pancreatin, Pepsin, Trypsin and Urease. Teacher's notes included.

Code	Description	Price
ENZ080010	Enzymes Set (8x10g)	£77.09



Bacterial Amylase

Liquid. Breaks starch into dextrins. 100ml per bottle.

Code	Description	Price
CBL460020	Bacterial Amylase (100ml)	£39.95



Scan here and
shop online now
SciChem.com



Bacterial Protease

Proteases, sometimes called peptidases or proteinases, are a class of enzymes that break down proteins into shorter polypeptide chains or into their constituent amino acids. Proteases are widely used commercially as a part of laundry detergents and as a food tenderizer. In the wild, when secreted by bacteria and fungi, they play an important role in the recycling of carbon and nitrogen. This protease originates from a bacterial source and is effective on a wide range of proteins. 100ml per bottle.

Code	Description	Price
CBL460041	Bacterial Protease (100ml)	£39.95

BREAKS STARCH INTO THE FORM OF MALTOSE



Alpha Amylase

Fungal. Granules. 100g per bottle.

Code	Description	Price
CBL460010	Alpha Amylase (100g)	£74.95

Contains
100 ml per
bottle



Pectinase

Liquid. Used to break down fruit into fruit juice.

Code	Description	Price
CBL460030	Pectinase (100ml)	£59.95

Contains
140-180
units per
gram



Urease Powder

Catalyzes the hydrolysis of urea into ammonia and carbon dioxide. Keep refrigerated.

Code	Description	Price
CBL460060	Urease Powder (10g)	£42.95



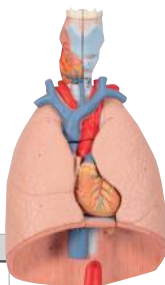
Ear Model

Enlarged about 3 times. Showing the external ear canal as well as middle and inner ear, ear drum with hammer and anvil removable, cochlea removable and dissectible, the whole model is dissectible into 4 parts, on base. Dimensions: 34 x 16 x 19cm.

Code	Description	Price
ZHM060010	Ear Model	£94.73

Lungs and Larynx Model

A 7 part model of the lungs and larynx mounted on a baseboard. The model contains the following removable parts: 2-part larynx; trachea with bronchial tree; 2-part heart; subclavian artery and vein; vena cava; aorta; pulmonary artery; oesophagus; 2-part lung (front halves removable) and diaphragm.



Code	Description	Price
ZHM330010	Lungs and Larynx Model	£350.35



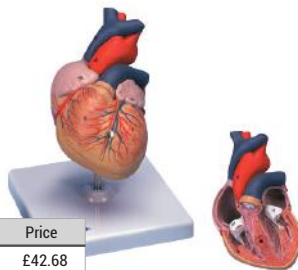
Kidney Model

A 3 times life-size longitudinal section of the right kidney. All important structures are shown. Dimensions: 8.5 x 19 x 26cm.

Code	Description	Price
ZHM140010	Kidney Model	£75.63

Basic Heart Model

The front heart wall is removable to view the chambers. Delivered on a removable stand. Dimensions: 19 x 12 x 12cm.



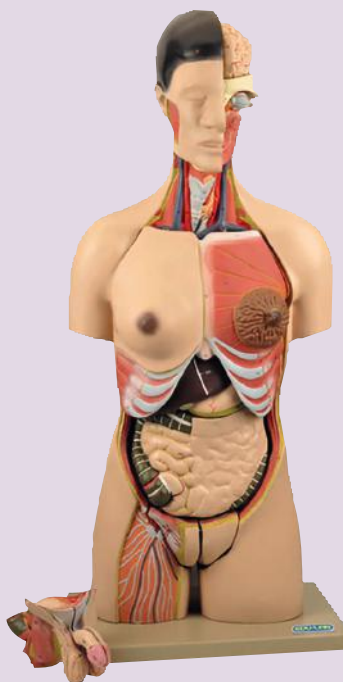
Code	Description	Price
ZHM090010	Basic Heart Model	£42.68



Brain Model - 4 Parts

This 4 part brain model is medially divided. The right half can be disassembled into frontal with parietal lobes, brain stem with temporal and occipital lobes as well as half of the cerebellum.

Code	Description	Price
ZHM170010	Brain Model	£147.14



LIFE SIZE MODEL

Life Size Bisexual Torso Model

This model has cutaway spine showing the head with nasal and buccal cavity, half brain, eye with optic nerve. Removable female breast with rib insertions, 2 part heart, 2 lung halves, liver with gall bladder, stomach, large and small intestines with appendix flap opening and covered, half of the kidney, male genital organs in 4 parts and female genital organs in 2 parts with embryo in the 3rd month of pregnancy.

Code	Description	Price
ZHM910060N	Torso Model	£460.06

Mini Torso with Detachable Head Model

About half life-size, this mini torso shows all anatomical details in the same way as the large torso models do. Mounted on a base. It dismantles into 12 parts:

- ✓ 2 Lung halves
- ✓ Heart (2 parts)
- ✓ Stomach
- ✓ Liver with gall bladder
- ✓ Part of intestine with appendix flap (2 parts)
- ✓ Torso Dimensions: 18 x 18 x 53cm



Code	Description	Price
ZHM040010	Mini Torso Model	£140.95

Head consisting of two halves and removable half brain

Human Skeleton Model

Human skeleton made of unbreakable plastic material. Natural cast of a first class male skeleton. All fissures, foramina and anatomical details are exactly reproduced. The skull is dissectible into 3 parts. A special mounting of the rib cage prevents it from slightly lowering after several years. The skull, arms and legs are detachable. The skeleton is mounted on a movable roller stand, with dust cover. Height: 170cm.



MADE FROM UNBREAKABLE PLASTIC

Code	Description	Price
ZHA010030	Human Skeleton Model	£235.00

Supplied with 11 organs and labels

Organ Tunic - Adult Size

Adult size tunic includes lung, stomach, small intestine, large intestine, liver, kidney, heart, oesophagus, pancreas, bladder, trachea and detailed labelling. Supplied with 11 organs and 11 labels. Size: 70 x 48cm.

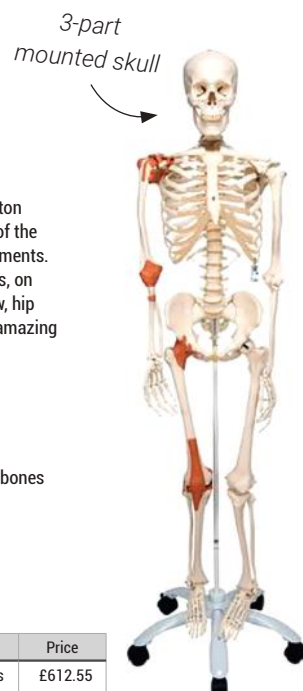
Code	Description	Price
ZHM690010	Organ Tunic	£128.25

Human Skeleton with Joint Ligaments

In addition to the standard benefits of a skeleton model, this version provides representations of the structural interaction between bones and ligaments. The human skeleton model's elastic ligaments, on the major appendicular joints (shoulder, elbow, hip and knee), are mounted on the right side. An amazing replica of the human skeleton.

- ✓ 3-year warranty
- ✓ Manual final assembly
- ✓ Made of durable, unbreakable plastic
- ✓ Almost realistic weight of the approx. 200 bones
- ✓ Life-size
- ✓ Individually inserted teeth
- ✓ Limbs are quick and easy to remove
- ✓ Stand and dust cover included

Code	Description	Price
ZHA320010	Human Skeleton with Joint Ligaments	£612.55



Effects of Smoking Model

Graphically demonstrate the impact of smoking on the lungs. Simply place a cigarette (that you provide) in the mouth of the 'Smoking Man' and draw smoke into his 'lungs' using the syringe pump included. The results will amaze you as you watch his lungs start to darken after only a few short puffs.

Code	Description	Price
14-30-1235	Effects of Smoking Model	£152.34



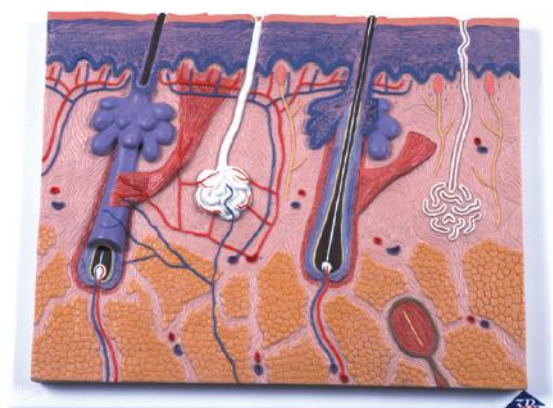
Human Digestive System Model

Representation of nose, mouth cavity, pharynx, esophagus, the gastrointestinal tract, liver with gall bladder, pancreas, spleen, duodenum, and opened cecum and rectum. Transverse colon is removable.

Code	Description	Price
AM94	Human Digestive System Model	£63.04

Expert Advice

Our experts are always happy to help, call on: **01902 402 402**



Skin Model

This 70 times life size relief model shows a section through the three layers of the hair-covered skin of the head. Representation of hair follicles with sebaceous glands, sweat glands, receptors, nerves and vessels. Delivered on a base. Dimensions: 26 x 33 x 5cm.

Code	Description	Price
ZHM190010	Skin Model	£76.55

Movable Joint Shoulder Model

Life size model of the upper humerus, scapula and clavicle. The joint is articulated to show its range of movement.

Code	Description	Price
ZHA070010	Shoulder Joint Model	£61.98



Movable Elbow Joint Model

A life size model showing the full range of movements and including the lower half of the humerus and the upper half of the ulna and radius.

Code	Description	Price
ZHA070020	Elbow Joint Model	£61.98

CLINICALLY
VALIDATED



Digital Blood Pressure Monitor

Clinically validated to the highest BHS standard, this blood pressure monitor measures systolic, diastolic and pulse. Accuracy of this monitor was clinically validated and the simple one-touch operation offers the user precise blood pressure results.

Code	Description	Price
YHP320010	Digital Blood Pressure Monitor	£35.84



Upper Arm Blood Pressure Monitor

This Upper Arm Digital Blood Pressure Monitor is perfect for measuring your blood pressure in a safe and accurate way. Easy to use the Blood Pressure Monitor is equipped with a one touch operation system and is fitted with a large backlit display screen.

Code	Description	Price
YHP080011	Upper Arm Blood Pressure Monitor	£38.87



Wrist Blood Pressure Monitor

This Blood Pressure Monitor is ideal for use in a wide array of scientific experiments within schools as well as for Physical Education students, it is simple to operate and comes with a hard plastic case perfect for classroom storage. Easy to use the Blood Pressure Monitor features a one touch operation system and is boasts a large bold display with back-light.

Code	Description	Price
YHP085012	Wrist Blood Pressure Monitor	£36.63



Fingertip Pulse Oximeter

The Fingertip Pulse Oximeter can be used to measure human Haemoglobin Saturation and Heart Rate through a fingertip.

- ✓ Pulse intensity by a single column bar graph
- ✓ Pulse rate as numbers
- ✓ SpO₂ (pulse oxygen saturation %) as numbers

Code	Description	Price
YHP400010	Fingertip Pulse Oximeter	£24.61



Simulated Blood Typing Kit

This ABO-Rh Blood Typing Kit allows your students to:

- ✓ Experiment using blood (Real blood is not used)
- ✓ Uses artificial blood and sera
- ✓ Rh factor determination
- ✓ A,B,O and AB types are included

Code	Description	Price
310-014	Blood Typing Kit	£56.04



Mini Peak Flow Meter

Popular, entry level unit supplied with one sterilisable mouthpiece and instruction manual.

Code	Description	Price
YHP090010	Mini Peak Flow Meter	£15.87



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IN SCOTTISH
FRAMEWORK

Single Head Stethoscope

Single head, simple pattern.

Code	Description	Price
YHP010010	Single Head Stethoscope	£3.65



NEW

PACK
OF 10

Finger Maze

Finger Maze Pattern - Acrylic Pk 10 2 Patterns.

Code	Description	Price
LA70-360S	Finger Maze Pattern	£130.00



Prokaryota Living Cultures

Cultures are supplied on agar slopes in screw top vials. Culture Media: Nutrient Agar.

Code	Description	Price
LCT050040	Bacillus Megaterium	£19.95
LCT050060	Bacillus Subtilis	£19.95
LCT050090	E Coli Culture	£19.95
LCT050100	Escherichia Coli B	£19.95
LCT050130	Micrococcus Luteus (Sarcina Lutea)	£19.95
LCT050180	Staphylococcus Albus	£19.95



Nutrient Agar

A basic culture medium used to sub-culture organisms for maintenance purposes or to check the purity of sub-cultures.

Code	Description	Price
MBM010115	Nutrient Agar 100g	£16.90
MED220010	Nutrient Agar 500g	£57.86



Malt Extract Broth

For identifying yeasts and moulds in sterility testing.

Code	Description	Price
MBM010095	Malt Extract Broth 100g	£24.22



Malt Extract Agar

For identifying yeasts and moulds in sterility testing.

Code	Description	Price
MBM010085	Malt Extract Agar 100g	£26.91



Prepared Agar Plates

10 Pack prepared agar plates (ROI only).

Code	Description	Price
MBM040010	Starch	£11.18
MBM040020	Malt Extract	£13.18
MBM040040	Nutrient	£8.81

Nutrient Broth

A general purpose fluid medium for cultivating micro-organisms not exacting in their nutritional requirements.

Code	Description	Price
MBM010125	Nutrient Broth 100g	£13.25

Nutrient Broth No.2

A nutritious medium suitable for cultivating fastidious pathogens and other micro-organisms.

Code	Description	Price
MBM010135	Nutrient Broth No.2 100g	£17.85

Sabouraud Dextrose Agar

An acid pH medium for isolating dermatophytes, other fungi and yeasts.

Code	Description	Price
MBM010142	Sabouraud Dextrose Agar 100g	£15.99

Agar Powder

Agar Powder is used as medium in microbiological storage systems.

Code	Description	Price
MBM010200	Agar Powder 250g	£26.77



Antimicrobial Susceptibility Discs

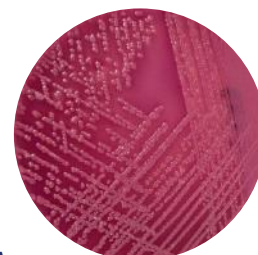
Antimicrobial Susceptibility Discs must be stored at -20°C if kept for long periods. Storage at 2-8°C is suitable for discs currently being used or to be used very soon. Discs should be returned to the refrigerator as quickly as possible after use.

Code	Description	Price
MBM020010	Penicillin Discs 1 Unit	£6.32
MBM020020	Penicillin Discs 2 Units	£6.32
MBM020030	Penicillin Discs 5 Units	£6.32
MBM020040	Penicillin Discs 10 Units	£6.54
MBM020050	Streptomycin Discs 10 Units	£6.32
MBM020060	Streptomycin Discs 25 Units	£6.54

Mast Rings

A systemic gram positive ring device carrying 8 antibiotic impregnated tips; (Chloramphenicol 25µg, Erythromycin 5µg, Fusidic acid 10µg, Oxacillin 5µg, Novobiocin 5µg, Penicillin G 1 unit, Streptomycin 10µg and Tetracycline 25µg) allowing the simultaneous application of the equivalent individual antimicrobial susceptibility test discs.

Code	Description	Price
MBM050011	Mast Rings (Pack of 100)	£94.58



MacConkey Agar

A differential medium for isolating coliforms and intestinal pathogens in water, dairy products and biological specimen.

Code	Description	Price
MBM010045	MacConkey Agar 100g	£26.81





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3/4 Size Monocular Microscope

A monocular biological microscope with 400x magnification. The 601-500 is an ideal starter microscope for educational laboratory use.

The microscope is mains or battery powered with 3 AA batteries (not included).

Four rubber feet ensure stability and eliminate vibration.

Mains lead included.

Code	Description	Price
601-500	3/4 Size Monocular Microscope	£86.57



Four rubber feet
ensure stability and
eliminate vibration

Mains or battery
powered

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FRAMEWORK

Microscope SciChem 100FL LED

Quality and value microscope for schools and colleges. Successor to the MIS100020 tungsten model.

Code	Description	Price
MIS100025	Microscope SciChem 100FL LED	£104.53



Ideal for school,
study or hobby
purposes

1001RMS Microscope

The 1001RMS microscope is a high quality, robust and well-equipped microscope ideal for school, study or hobby purposes.

Code	Description	Price
MIB070700	1001RMS Microscope	£209.25



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biology equipment visit
SciChem.com

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IN SCOTTISH
FRAMEWORK

BMS 037 LED Microscope

Extremely strong microscope stand. All the parts are locked to the microscope. The microscope has anti-bacterial paint on the metal parts and anti-fungus coating on the optical (glass) parts. Has a LED indicator on the back to show if main power is switched on and if optional battery is charged.

Code	Description	Price
MIB333010	BMS 100 FL LED	£122.75



AS FEATURED
IN SCOTTISH
FRAMEWORK

BMS 037 LED Microscope

Two microscope types in one - incident and transmitted light microscope! The new BMS 037 LED is an ideal starter microscope. The microscope's stability is optimized by the robust stand and base construction.

Code	Description	Price
MIB510010	BMS 037 LED Microscope	£88.25





MIB070021

MIB070011



MIB070031



MIB070041



BMS 146 Series Compound Microscopes

The stable and sturdy student microscopes of this series have proven their value and quality at schools hundreds of times. They fulfil all of today's demands that one might expect from a student proof microscope, but they are not equipped with expensive and unnecessary extras.

Code	Description	Price
MIB070011	Microscope BMS146 FLAs Q LED	£156.25
MIB070021	Microscope BMS146 FLArQ LED Monocular	£195.70
MIB070031	Microscope BMS146 FLArQ LED Binocular	£319.68
MIB070041	Microscope BMS146 FLArQ LED Trinocular	£361.77

Expert Advice

Our experts are always happy to help, call on: **01902 402 402**



MIB570011



MIB570041

BMS EduLed Series

The EduLed microscopes are high quality, robust and well equipped microscopes ideal for school, study and hobby purposes. The microscope's stability is optimised by the robust stand and base construction. The stand is provided with a window and an integrated battery holder.

Code	Description	Price
MIB570011	Microscope BMS EduLed FLQ	£225.04
MIB570031	Microscope BMS EduLed FLArQ Mono	£235.25
MIB570041	Microscope BMS EduLed FLArQ Bino	£430.67

*Ideal for school, study
and hobby purposes*



MIB570031

BMS D2 Series Microscopes

In a nutshell: flexible, efficient, stable and comfortable to use. Applicable in both educational, laboratory and professional environments. The BMS D2 will meet all the requirements for a microscope in these sectors. In addition to the ergonomic design, the robust components, the high-quality LED (developed according to the latest technology), the price of this microscope can certainly be called attractive. The BMS D2 microscope has high resolution lenses and a WF eyepiece with plan optics. The optics allow the user to view bright, colour- and contrast-rich images. The stability of the microscope is guaranteed by the solid design of the tripod and the base. The tripod also has a wide opening at the back. The BMS D2 microscope is equipped with a cross table that has a working surface of 140 x 155 mm. The integrated X-Y cross table is easy to use thanks to the ergonomically placed coaxial control buttons. The Abbe condenser is easy to change for various available accessories such as a dark field or phase contrast condenser. By means of a rack and pinion, the condenser can be adjusted in height. All optical surfaces (eyepiece and lenses) are coated with an anti-fungal layer. The new generation of LED lighting gives comfort and tranquility to the eye. The spectrum of the LED is equal to that of natural daylight and is adjustable in intensity. The LED light source is similar to a 30 W halogen light source.

Code	Description	Price
MIB400245	Monocular Microscope D2-211	£347.85
MIB400275	Binocular Microscope D2-220	£418.99
MIB400305	Trinocular Microscope D2-223	£467.93

Ergonomic design, robust components, and a high-quality LED

High resolution lenses and a WF eyepiece with plan optics

The optics allow the user to view bright, colour- and contrast-rich images



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STABLE AND
COMFORTABLE TO USE**



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Petri Dishes

See p151

S-05 Stereomicroscope

BMS Stereo Microscope S-05-L

- ✓ Tripod: column stand
 - ✓ Eyepieces: two WF 10x/20 mm
 - ✓ Tubus: 45° inclined
 - ✓ Eye distance: 50 mm to 76 mm adjustable
 - ✓ Objective: 2x
 - ✓ Head: height adjustable
 - ✓ Focusing: coarse control
 - ✓ Lighting: above LED lighting
 - ✓ Magnification: 20x
 - ✓ Field of view: 10 mm
 - ✓ Working distance: 80 mm
 - ✓ Connection value: 2 x AA battery, included
- Supplied including dust cover, user manual and Ø 50 mm white object disc.



Code	Description	Price
MIB520011	S-05 Stereomicroscope	£53.75

**PACK
OF 100**


Microscope Cover Slips No 0 24x24mm

Academy cover slips thickness; 0.16-0.19mm
24 x 24mm, pack of 100 slips.

Code	Description	Price
MCS150030	Microscope Cover Slips No 0 24x24mm	£1.17


**PACK
OF 100**

Cover Slips

No. 0 Microscope Cover Slips, 22 x 22mm,
pack of 100.

Code	Description	Price
MCS150020	Microscope Cover Slips No 0 22x22mm	£1.58


**PACK
OF 100**

Microscope Slides

No. 0 Microscope Cover Slips, 18 x 18mm,
pack of 100.

Code	Description	Price
MCS150010	Microscope Cover Slips No 0 18x18mm	£1.64

Eyepiece WF x10 with Micrometer

Micrometer eyepiece WF 10x/18mm.

Code	Description	Price
MIB030630	Eyepiece WF x10 with micrometer	£43.27
MIA190010	Eyepiece WF x10 with Micrometer for BMS EduLed	£43.54



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**FITS BMS 100FL,
146 AND 136
MICROSCOPES**


Microscope Dust Covers

Microscope Dust Cover for BMS 100FL, 146
and 136 Microscopes.

Code	Description	Price
MIB800010	Dust Cover Small (100FL,146,136 etc)	£3.24


**PACK
OF 100**

Microscope Slides

Glass slides with ground edges, 75 x 25mm.

Code	Description	Price
MSL230020	Plain Microscope Slides 1.2/1.4mm	£4.53



Microscope Maintenance & Servicing Kit

Microscope maintenance and servicing kit packed in a toolbox, 16pcs including:
cleaning brush, 6 piece screwdriver set, air blower, 3 Allen keys (1.5, 2, 2.5 mm),
lens cleaning fluid 20 ml, cleaning cloth (140 x 140 mm), 100 lens tissue sheets,
tube of maintenance grease, 10 ml bottle of oil.

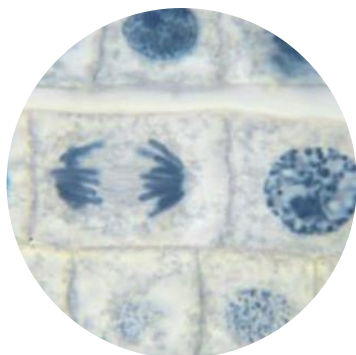
Code	Description	Price
601-569	Microscope Maintenance & Servicing Kit	£26.10



Microscope Slide Set - Animal Histology

Includes slides of blood, epithelial tissue, connective tissue, bone, cartilage, muscle and nerve tissue.

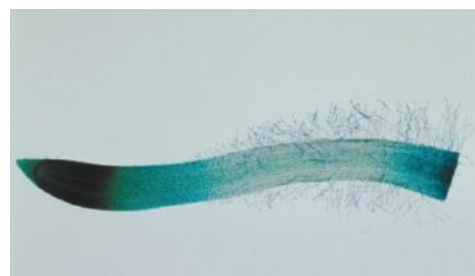
Code	Description	Price
YPS300430	Microscope Slide Set Animal Histology 24	£45.54



Microscope Slides - Monocot Roots

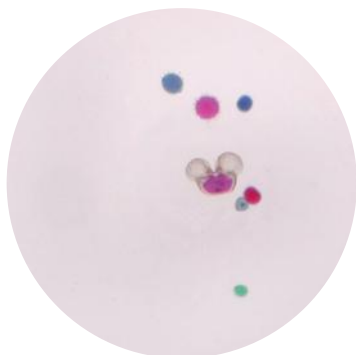
A microscope slide with a squash mount preparation of an Allium (onion) root tip selected to show all stages of mitosis. Feulgen stain.

Code	Description	Price
CBS010070	Slide Onion Mitosis Root Tip i.s.	£14.65



Root tip stained to show root hairs.

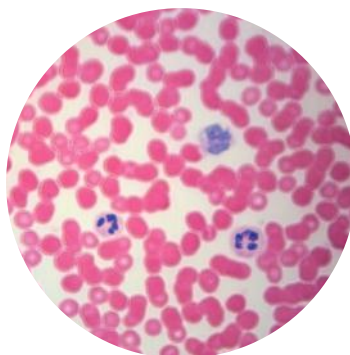
Code	Description	Price
CBS010080	Slide Root Hairs w.m.	£13.95



Microscope Slides - Flowers

Mixed pollen grains showing a variety of shapes and sizes.

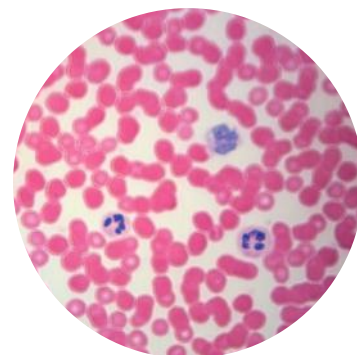
Code	Description	Price
CBS010110	Slide Mixed Pollen Grains w.m.	£9.95



Microscope Slides - Blood

Human Blood Smear H+E Stain Microscope Slide.

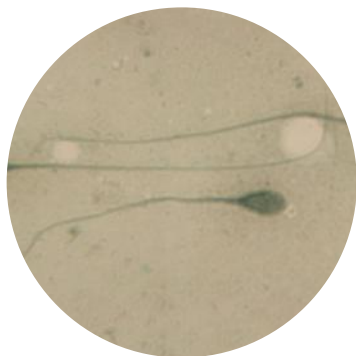
Code	Description	Price
CBS010240	Slide Blood Human Smear	£12.49



Microscope Slides - Blood

Stained in Wright's stain and is our most popular blood smear.

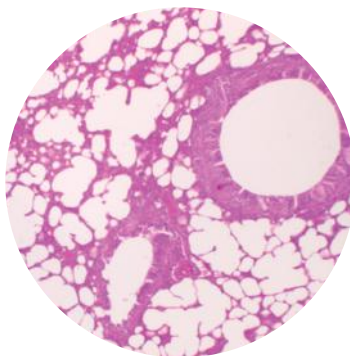
Code	Description	Price
CBS010250	Slide Blood Human Wrights Smear	£11.95



Microscope Slides - Male Reproductive System

Human sperm smear microscope slide. Stained to show general structure.

Code	Description	Price
CBS010420	Slide Sperm Human Smear	£17.79



Microscope Slides - Respiratory System

Respiratory system microscope slide.

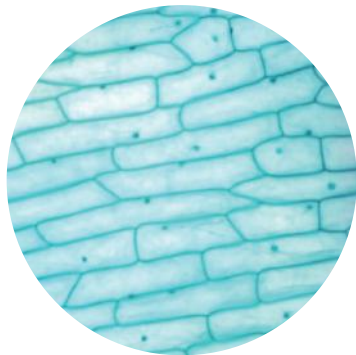
Code	Description	Price
CBS010980	Slide Lung Sec	£12.49



Microscope Slides - Bacterial Types

Mixed gram positive and gram negative bacillus, w.m. gram stain microscope slide.

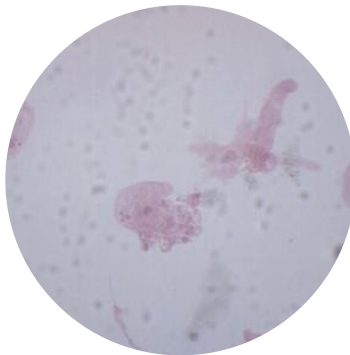
Code	Description	Price
CBS100020	Slide Bacillus Pos & Neg w.m.	£11.35



Microscope Slides - Leaf Epidermis

Onion Bulb Epidermis, w.m., Allium. Widely used to demonstrate simple cell structure.

Code	Description	Price
CBS100620	Slide Onion Bulb Epidermis w.m.	£9.95



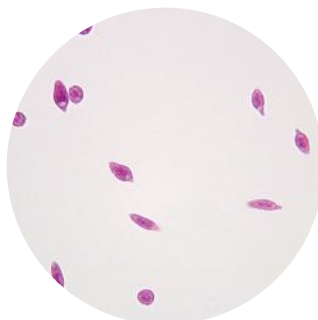
Prepared Microscope Slide - Amoeba Proteus

Amoeba Proteus, whole mount. Prepared microscope slide. 75x25mm.

Code	Description	Price
450-107	Amoeba Proteus, Whole Mount - 75x25mm	£4.68



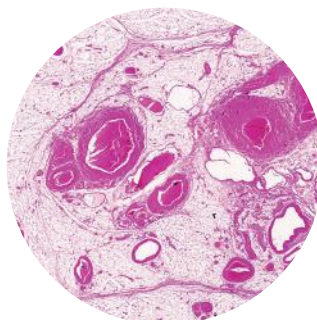
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Microscope slide - Euglena

Euglena Economy microscope slide. Prepared slides.

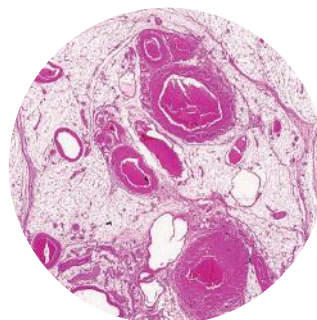
Code	Description	Price
YPS300020	Microscope Slide - Euglena	£2.62



Microscope Slide - Artery and Vein

Artery and Vein t.s. Economy microscope slide. Prepared slides.

Code	Description	Price
YPS300040	Microscope Slide - Artery and Vein	£2.62



Microscope Slide - Artery and Vein c.s.

Artery and Vein c.s. Economy microscope slide. Prepared slides.

Code	Description	Price
YPS300050	Microscope Slide - Artery and Vein c.s.	£2.62

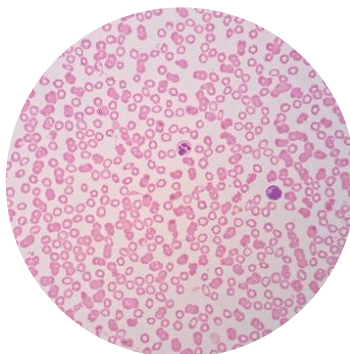




Microscope Slide - Blood Smear Giemsa

Blood smear giemsa economy microscope slide. Prepared slides.

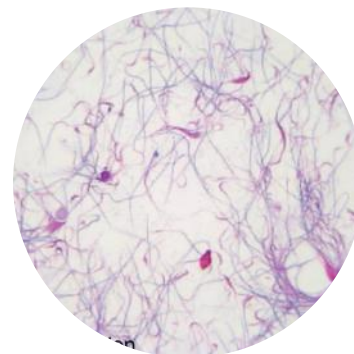
Code	Description	Price
YPS300060	Microscope Slide - Blood Smear Giemsa	£2.62



Microscope Slide - Blood Smear Human

Blood smear human economy microscope slide. Prepared slides.

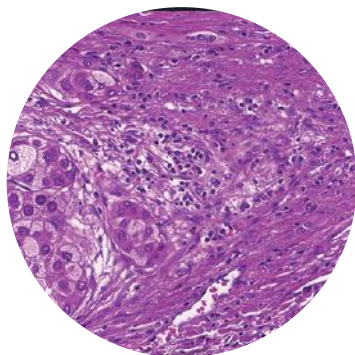
Code	Description	Price
YPS300070	Microscope Slide - Blood Smear Human	£2.62



Microscope Slide - Human Sperm

Human sperm sm economy microscope slide. Prepared slides.

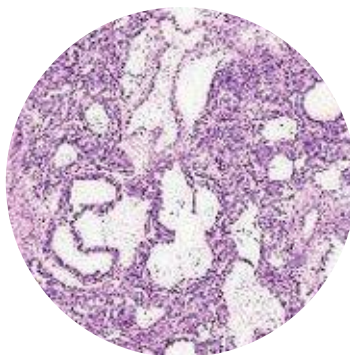
Code	Description	Price
YPS300110	Microscope Slide - Human sperm s.m.	£2.93



Microscope Slide - Liver

Liver c.s economy microscope slide. Prepared slides.

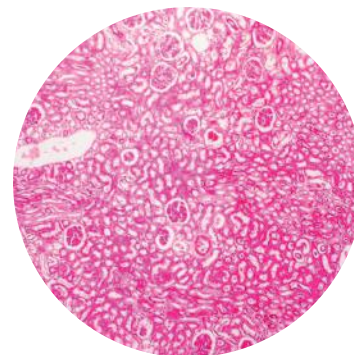
Code	Description	Price
YPS300130	Microscope Slide - Liver c.s.	£2.62



Microscope Slide - Lung Section

Lung Section Economy Microscope Slide. Prepared Slides.

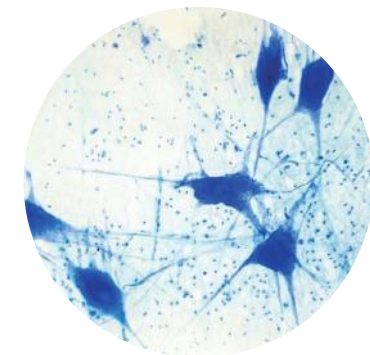
Code	Description	Price
YPS300150	Microscope Slide - Lung sec	£2.62



Microscope Slide - Mammalian Kidney Section

Mammalian kidney sec economy microscope slide. Prepared Slides.

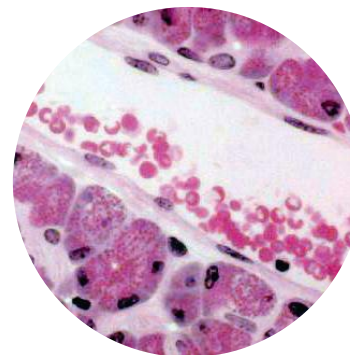
Code	Description	Price
YPS300170	Microscope Slide - Mammalian Kidney Sec	£3.12



Microscope Slide - Nerve Cell

Nerve cell economy microscope slide. Prepared slides.

Code	Description	Price
YPS300180	Microscope Slide - Nerve cell	£2.62



Microscope Slide - Squamous Epithelium

Squamous epithelium sm economy microscope slide. Prepared Slides.

Code	Description	Price
YPS300230	Microscope Slide Squamous Epithelium s	£3.17



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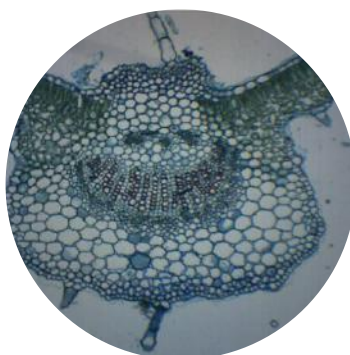
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**BEST
SELLER****Microscope Slide -
Striated Muscle Section**

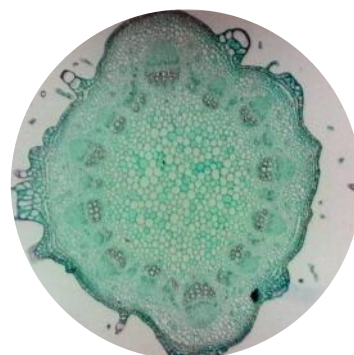
Striated muscle section economy microscope slide. Prepared slides.

Code	Description	Price
YPS300240	Microscope Slide - Striated Muscle Sec	£2.62

**Microscope Slide - Dicot Leaf**

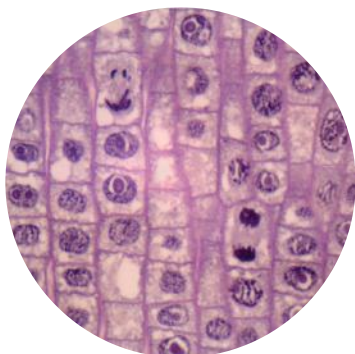
Dicot leaf economy microscope slide. Prepared slides.

Code	Description	Price
YPS300250	Microscope Slide - Dicot Leaf	£2.62

**Microscope Slide -
Dicot Stem Sunflower**

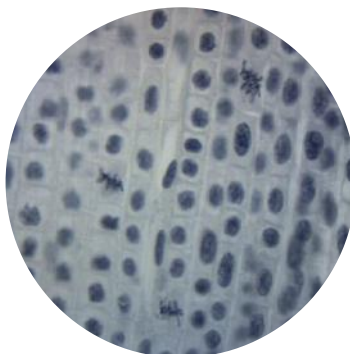
Dicot stem sunflower t.S. Economy microscope slide. Prepared Slides.

Code	Description	Price
YPS300280	Microscope Slide - Dicot Stem Sunflower	£3.17

**Microscope Slide -
Mitosis Onion Root Tip**

Mitosis onion root tip I.S. Economy microscope slide. Prepared slides.

Code	Description	Price
YPS300300	Microscope Slide - Mitosis Onion Root Tip	£3.17

**Microscope Slide - Root Mitosis**

Root mitosis economy microscope slide. Prepared slides.

Code	Description	Price
YPS300320	Microscope Slide - Root Mitosis	£3.17

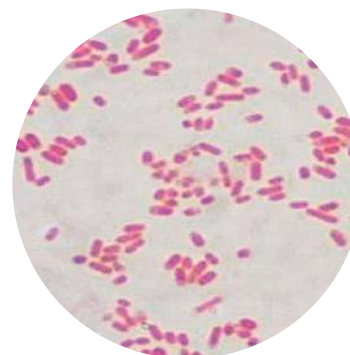
**Microscope Slide - Bacteria**

Bacteria economy microscope slide. Prepared slides.

Code	Description	Price
YPS300330	Microscope Slide - Bacteria	£3.17

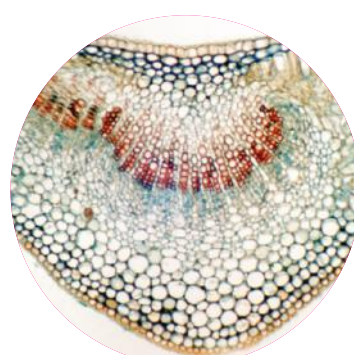


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**Microscope Slide - Escherichia Coli**

Escherichia coli economy microscope slide. Prepared slides.

Code	Description	Price
YPS300340	Microscope Slide - Escherichia Coli	£3.17

**Microscope Slide Privet Leaf**

Privet leaf c.S. Economy microscope slide. Prepared slides.

Code	Description	Price
YPS300360	Microscope Slide Privet Leaf c.s.	£1.06



Microslide Viewer

This is a specially designed teaching tool for viewing Microslides®. It is a precision instrument unconditionally guaranteed against breakage for 1 year. The viewer does not require electricity or batteries and can be used outdoors as well as in the classroom. The white reflector provides sufficient light for a bright image in the normal light of a classroom. Viewer brings 5X magnification.

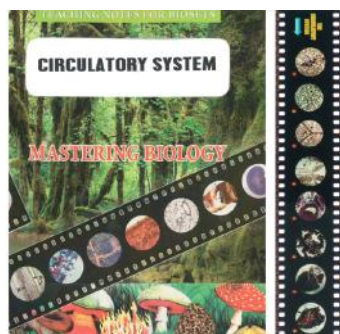
Code	Description	Price
EDU-505A	Microslide Viewer (Single)	£17.37



Micro Slide Strip Plants & Animals

Plants & Animals Slide Strips for Micro Slide Viewer

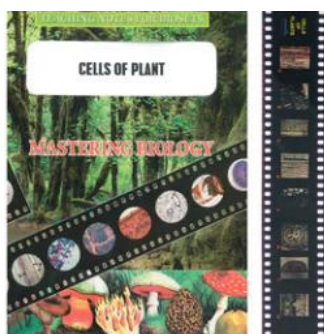
Code	Description	Price
MBV200500	Slide Strip - Cells of Plants & Animals	£3.48



Microslide Strip - Circulatory system

Circulatory System Slide Strips for Micro Slide Viewer.

Code	Description	Price
MBV200530	Slide Strip - Circulatory system	£3.48



Microslide Strip - Cells of plants

Plants Slide Strips for Micro Slide Viewer.

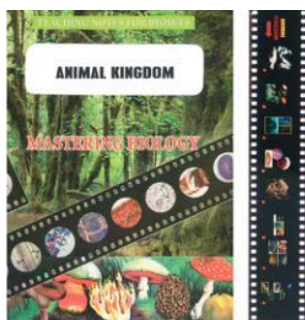
Code	Description	Price
MBV200540	Slide strip - Cells of plants	£3.48



Microslide Strip - Cells of Animal Mitosis

Animal Mitosis Slide Strips for Micro Slide Viewer.

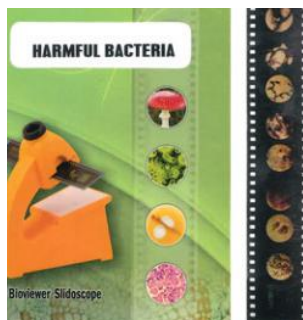
Code	Description	Price
MBV200550	Slide Strip - Cells of Animal Mitosis	£3.54



Microslide Strip - Cells of The Animal Kingdom

The Animal Kingdom Slide Strips for Micro Slide Viewer.

Code	Description	Price
MBV200560	Slide Strip - Cells of The Animal Kingdom	£3.48



Microslide Strip - Cells of Harmful Bacteria

Harmful Bacteria Slide Strips for Micro Slide Viewer.

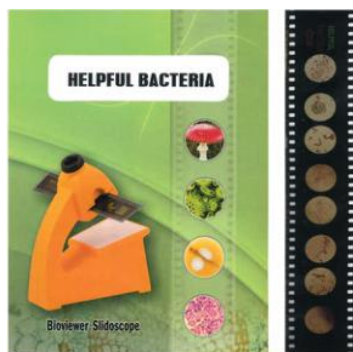
Code	Description	Price
MBV200570	Slide Strip - Cells of Harmful Bacteria	£3.27



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Microslide Strip - Human Blood

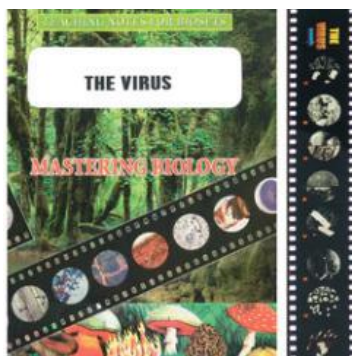
Code	Description	Price
MBV200520N	Slide Strip - Human Blood	£3.48



Microslide Strip - Cells of Helpful Bacteria

Helpful Bacteria Slide Strips for Micro Slide Viewer.

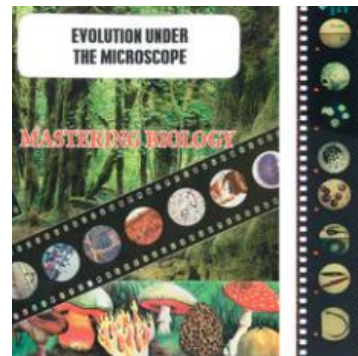
Code	Description	Price
MBV200580	Slide Strip - Cells of Helpful Bacteria	£3.48



Microslide Strip - Cells of The Virus

Virus Slide Strips for Micro Slide Viewer.

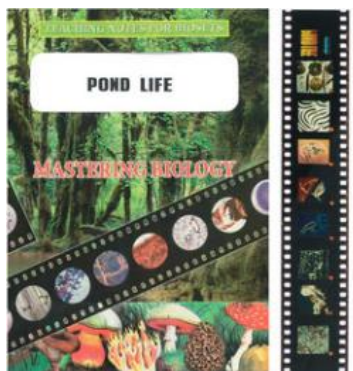
Code	Description	Price
MBV200590	Slide Strip - Cells of The Virus	£3.54



Microslide Strip - Cells of Evolution Under the Microscope

Evolution Under the Microscope Strips for Micro Slide Viewer.

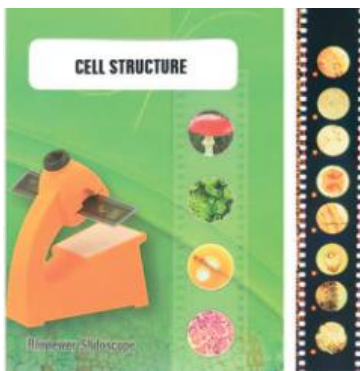
Code	Description	Price
MBV200610	Slide Strip - Cells of Evolution Under the Microscope	£3.27



Microslide Strip - Cells of Pond life

Pond Life Slide Strips for Micro Slide Viewer.

Code	Description	Price
MBV200620	Slide Strip - Cells of Pond life	£3.33



Microslide Strip - Cells of Cell Structure

Cell Structure Slide Strips for Micro Slide Viewer.

Code	Description	Price
MBV200630	Slide Strip - Cells of Cell Structure	£3.48



Microslide Strip - Cells of Meiosis

Meiosis Slide Strips for Micro Slide Viewer.

Code	Description	Price
MBV200640	Slide Strip - Cells of Meiosis	£3.54

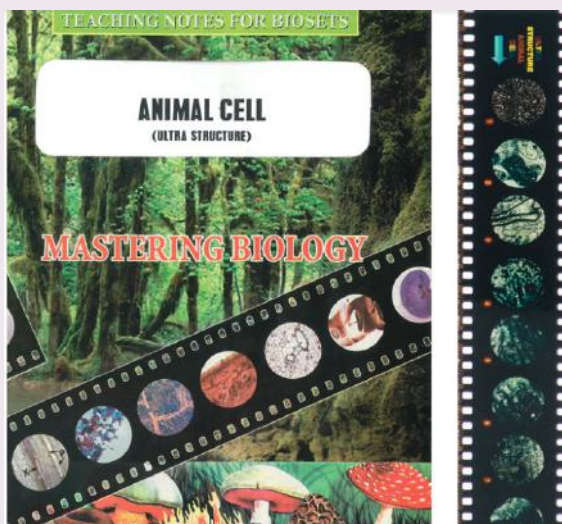
FREE Microscope Poster Download

Download and keep our Microscope Poster for your classroom wall. This handy explainer can help students understand the parts and mechanics of a typical microscope to make using them much easier and fun. Look out for more classroom downloads coming soon!



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Actual design and content may vary



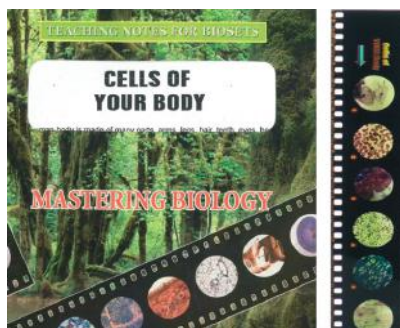
Microslide Strip - Cells of Animal Cells

Animal Cells Slide Strips for Micro Slide Viewer.

Code	Description	Price
MBV200650	Slide Strip - Cells of Animal Cells	£3.48



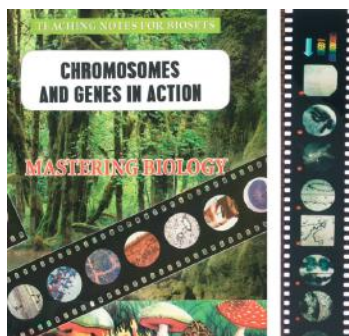
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Microslide Strip - Cells of Your Body

Cells of Your Body Slide Strips for Micro Slide Viewer.

Code	Description	Price
MBV200660	Slide Strip - Cells of Your Body	£3.27



Microslide Strip - Cells of Chromosomes & Genes

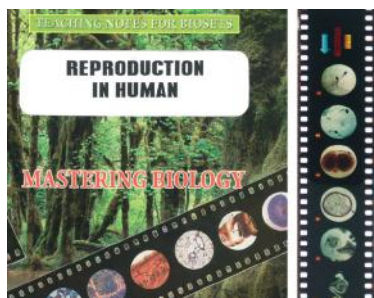
Chromosomes & Genes Slide Strips for Micro Slide Viewer.

Code	Description	Price
MBV200670	Slide Strip - Cells of Chromosomes & Genes	£3.33

Don't Forget



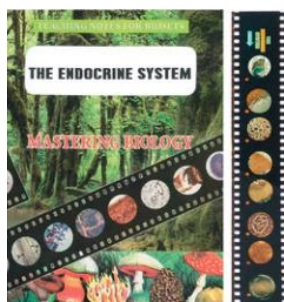
Microslide Viewer See p29



Microslide Strip - Cells of Human Reproduction

Cells of Human Reproduction Slide Strips for Micro Slide Viewer.

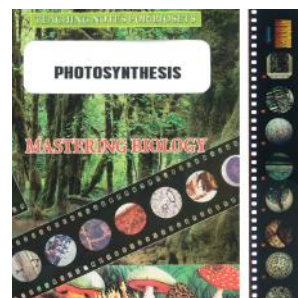
Code	Description	Price
MBV200680	Slide Strip - Cells of Human Reproduction	£3.54



Microslide Strip - Cells of Endocrine System

Cells of Endocrine System Slide Strips for Micro Slide Viewer.

Code	Description	Price
MBV200690	Slide Strip - Cells of Endocrine System	£3.48

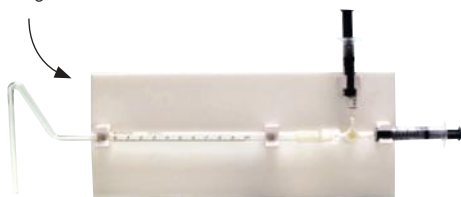


Microslide Strip - Cells of Photosynthesis

Photosynthesis Slide Strips for Micro Slide Viewer.

Code	Description	Price
MBV200710	Slide Strip - Cells of Photosynthesis	£3.54

Ideal for
classroom use



Photosynthesis Apparatus

Photosynthesis Apparatus for measuring and analysing gas given off by plants. The apparatus enables gas to be drawn along the capillary tube by one syringe and collected into the second syringe for analysis.

Code	Description	Price
YPP630010	Photosynthesis Apparatus	£38.95

**ADJUSTABLE
TO ANY
ANGLE**

Clinostat

Essential for studying geotropism and phototropism on seedlings, cut shoots and small potted plants. Slow rotation in the vertical or horizontal planes cancel out the effect of gravity and directional light. On strong stable base adjustable to any angle with clear plastic cover.

Code	Description	Price
YPP340010	Clinostat	£85.92



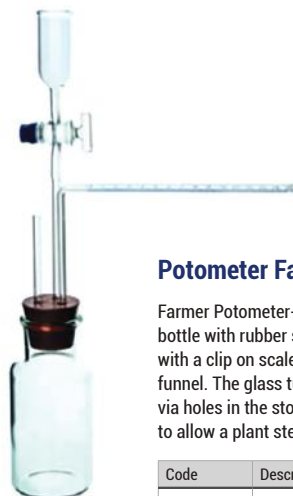
Simple Potometer

A simple apparatus for investigating the rate of water uptake and transpiration in plants. The tubing is mounted onto a sturdy acrylic plate with 1mm capillary tube and millimetre scale. The apparatus includes a syringe to aid setting up and for resetting the device for further experiments.

Code	Description	Price
YPP620011	Simple Potometer	£32.90



Easy to use



Potometer Farmer

Farmer Potometer-Comprised of a wide mouthed bottle with rubber stopper, a narrow bore glass tube with a clip on scale (0-300mm) and a dropping funnel. The glass tube and dropping funnel attach via holes in the stopper and a third hole is present to allow a plant stem to be inserted.

Code	Description	Price
YPP320010	Potometer Farmer	£49.79



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**INCLUDES A PLANT CARE
LIST FOR OVER
150 PLANTS**

Plant Moisture Meter

Instantly tells you when to water your plants. Includes a plant care listing of the individual watering needs of over 150 plants.

Code	Description	Price
SOT080010	Plant Moisture Meter	£20.05

Easy to use

PACK
OF 6

Cellular Respiration Box

With this box partially filled with lime water, the carbon dioxide rejected can be observed. The observation is very easy thanks to the transparency of the box. Dimensions: 35 x 75mm.

Code	Description	Price
YPP680010	Cellular Respiration Box	£16.70



Leaf Dicotyledon Model

A section through a typical leaf, showing epidermis, palisade and spongy mesophyll, vascular bundle and stomata. Supplied with key card. Size: 150 x 100 x 60mm.

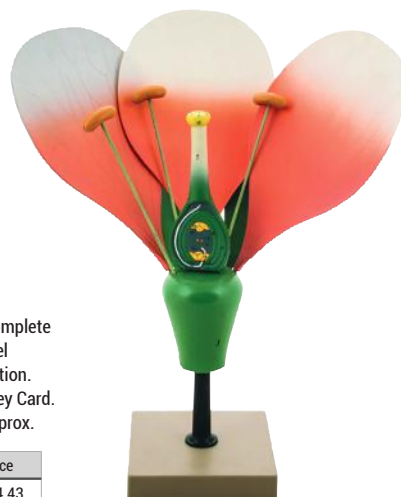
Code	Description	Price
ZFM030010	Leaf Dicotyledon Model	£180.95



Dicotyledon Stem (Helianthus) Model

The top surface of the model represents a transverse section of a wedge shaped sector of the stem and includes all the tissues from epidermis to pith.

Code	Description	Price
ZFM020010	Dicotyledon Stem (Helianthus) Model	£381.55

Made of non-break
resistant plastic

Model Flower Dissectable

Representing a greatly enlarged idealized complete flower, this non-break resistant plastic model teaches angiosperm pollination and fertilization. Mounted on base. Numbered with English Key Card. Size 37 x 25 x 31cm approx. Weight 1 kg approx.

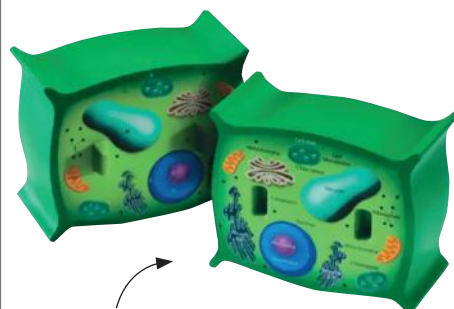
Code	Description	Price
ZFM170010	Model Flower Dissectable	£34.43



Big Flower Model

Essential for studying geotropism and phototropism on seedlings, cut shoots and small potted plants. Slow rotation in the vertical or horizontal planes cancel out the effect of gravity and directional light. On strong stable base adjustable to any angle with clear plastic cover.

Code	Description	Price
ZFM100010	Big Flower Model	£49.71

Made of
soft foam

Cross-section Plant Cell Model

Soft Foam Cross-Section Plant Cell Model.

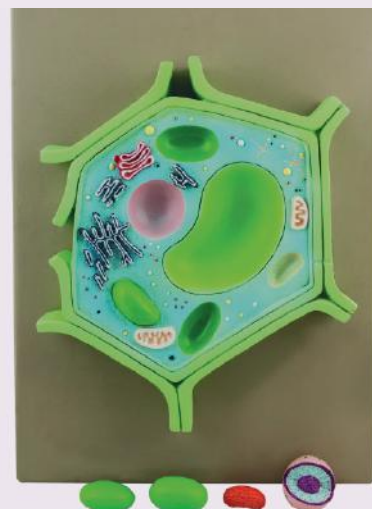
Code	Description	Price
ZFM180010	Cross-section Plant Cell Model	£15.33

REMOVABLE CHLOROPLAST, MITOCHONDRIA, AND NUCLEUS

Plant Cell Model

An excellent example of a basic plant cell is displayed for easy study and explanation. Highlights all major organelles, with removable Nucleolus, Mitochondria, and 2 Chloroplast for closer study.

Code	Description	Price
ZFM060030	Plant Cell Model	£39.29





CHEMISTRY

CHROMATOGRAPHY	35
ELECTROCHEMISTRY	36
FLAME TESTING	38
GAS	39
JOINTED GLASSWARE	41

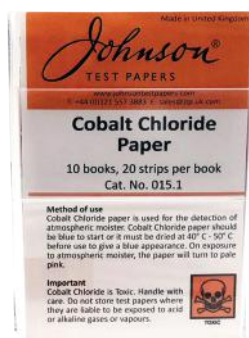
MELTING POINT	44
MOLECULAR MODELS	45
PH & CONDUCTIVITY	50
TESTING STRIPS	54



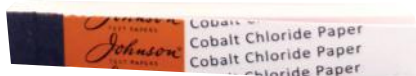
PH & CONDUCTIVITY



ELECTROCHEMISTRY



TESTING STRIPS



MELTING POINT



Porcelain Spotting Tile

Suitable for observing colour reactions. Extensively used in semi-micro chemistry. Glazed top and sides. Depressions are 22mm in diameter and 8mm deep.

Code	Description	Price
TIL030010	6 Cavity Porcelain Tile	£1.90
TIL030020	12 Cavity Porcelain Tile	£2.32

Plastic Spotting Tile

High quality high-density polyethylene tile with 12 cavities.

Code	Description	Price
TIL040010B	12 Cavity Spotting Tiles	£14.82

PACK
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Lid available
separately

Chromatography Jar

Simax Specimen Jar, Cylindrical, Outer Diameter 100mm, Height 150mm, Borosilicate 3.3. Lid also available.

Code	Description	Price
CHR100011	Chromatography Jar	£11.56
CHR100501	Chromatography Jar Lid	£13.43



Polygram Pre Coated TLC Plates

A general purpose plate which can be used for most separations. Coated with Silica Gel, average pore diameter 60, layer thickness 0.25mm with fluorescent indicator. Easily cut with scissors forming smaller plates which may be used to facilitate the further development of a given spot. The plates can be rolled to fit into Chromatography cylinders. The carrier sheet is polyester, 0.2mm thick and resistant to all organic solvents commonly used in T.L.C.

Code	Description	Price
TLC010010	80 x 40mm	£64.30
TLC010020	200 x 50mm	£137.55

PACK
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Chromatography Paper

Larger width reels available on request, please ask Customer Services for details.

Code	Description	Price
CHR010020	1 Chr 200x200mm	£66.35
CHR010030	1 Chr 250x250mm	£94.75
CHR010040	1 Chr 460x570mm	£208.10
CHR020010	3mm Chr 200x200mm	£78.15
CHR040010	1 Chr 10mm Wide x 100m Reel Each	£22.95
CHR040020	1 Chr 20mm Wide x 100m Reel Each	£32.75
CHR040030	1 Chr 30mm Wide x 100m Reel Each	£44.95
CHR040040	1 Chr 40mm Wide x 100m Reel Each	£50.15

PACK
OF 100



Gas Voltmeter

Consists of a plastic container fitted with carbon electrodes and 4mm sockets for connection. The electrodes are designed to support the gas collecting tubes leading all evolved gas in the collecting tubes. Intended for individual student use.

Code	Description	Price
XCH100010	Gas Voltmeter	£8.50



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Voltmeter Hoffman

Both models are made from borosilicate glass.

Code	Description	Price
CH0740B	Graduated Voltmeter	£75.37
XCH010020	Ungraduated Voltmeter	£138.15



PERFECT FOR A
QUICK DEMONSTRATION
OF ELECTROLYSIS

Electrolysis Cells

For quick demonstration of electrolysis. Comprises open-ended glass tube fitted with two carbon electrodes by means of a rubber stopper. Connections made by crocodile clips and an insulating strip of plastic in the bung prevents the clips being shorted accidentally. Consists of glass tubes of dia 74 x 24mm, and collecting tubes of dia 75 x 10mm.

Code	Description	Price
XCH050010	Electrolysis Cells	£9.37



Electrode Holder

A robust acrylic base, 130mm wide with two crocodile clip holders. The crocodile clips hold standard 5mm carbon rods or strip metal electrodes and can be connected with 4mm leads. For use in electrolysis, electroplating etc. Supplied without electrodes.

Code	Description	Price
XCH035010	Electrode Holder	£5.70



Electrodes Platinum Screw Terminals

Platinum electrodes in glass for use with the Hoffman Voltmeter. Sold in pairs.

Code	Description	Price
XCH010510	Screw Terminals	£43.90

PACK
OF 50

For electrolysis of
reactive materials



Carbon Electrodes

For electrolysis of reactive materials like hydrochloric acid and other compounds. Suitable alternative to platinum. Alligator clips can be used for making wire connections.

Code	Description	Price
XCH020020	Carbon Electrodes 100 x 5mm	£18.18



Expert Advice

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Flat Electrodes with Binding Posts

For assembling voltaic cells, electrolysis experiments etc. Size 125 x 50mm (L x W) with 4mm socket binding post terminal.

Code	Description	Price
XLE260070	Aluminium	£2.01
XLE260080	Carbon	£4.12
XLE260090	Copper	£4.45
XLE260110	Lead	£3.24
XLE260120	Zinc	£2.50

Flat Electrodes

For assembling voltaic cells, electrolysis experiments etc. Size: 125 x 25mm (L x W)

Code	Description	Price
XLE260010	Aluminium	£0.90
XLE260030	Copper	£1.96
XLE260040	Iron	£0.95
XLE260050	Lead	£1.03
XLE260060	Zinc	£1.56



S Shaped Electrode

May be hung from a beaker containing an electrolyte and connected by crocodile clip leads. Made from insulated steel and sold as a pair.

Code	Description	Price
XCH010600	S Shaped Electrode	£6.72



Chemical Moles Set

Easily visualise what 1 mole of a substance looks like. Each set contains 1 mole of seven different materials: Copper, Aluminium, Iron, Brass, Salt, Chalk and Water. They are all clearly labelled with physical and chemical data so that students can appreciate what 6×10^{23} atoms or molecules look like!

Code	Description	Price
XCK050010	Moles Set	£51.32



Daniel Cell

The Daniel Cell consists of a central zinc anode, dipping into a porous earthenware pot containing zinc sulphate solution. The porous pot is, in turn, immersed in a solution of copper sulphate contained in a copper can, which acts as the cell's cathode. The use of a porous barrier prevents the copper ions in the copper sulphate solution from reaching the zinc anode and undergoing reduction. This would render the cell ineffective by bringing the battery to equilibrium without driving a current. This Daniel Cell consists of a copper vessel with a perforated shelf of copper sulphate crystals. Supplied with porous pot and zinc rod. Size 135 x 100mm (HxD)

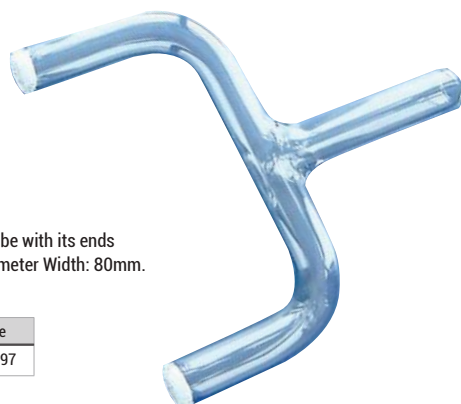
Code	Description	Price
XCH090020	Daniel Cell	£14.44



Salt Bridge

The salt bridge consists of an inverted U tube with its ends closed by sintered discs. Arms: 13mm diameter Width: 80mm. Height: 100mm

Code	Description	Price
XCH090010	Salt Bridge	£34.97



Manufactured from
Soda Glass.



Pneumatic Troughs

Plain cylindrical jars. Manufactured from Soda Glass.

Code	Description	Price
TPN010021	230x100mm	£28.52
TPN010031	300x125mm	£47.61

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Rod Glass with Platinum Wire

The Platinum Wire is fixed in the end of a glass rod. Glass rod dimensions: 60mm x 3mm (L x dia.) Platinum wire length: 15mm.

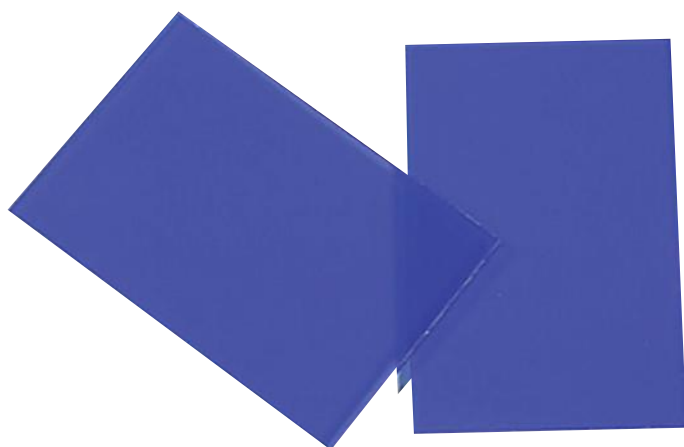
Code	Description	Price
PTR010050	Rod Glass with Platinum Wire	£16.96

Expert Advice

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Cobalt Blue Flame Test Glass

Used in flame testing as it absorbs the yellow light of sodium, allowing the much less intense lilac colour of any potassium ions to be seen. Size: 75 x 50mm.

Code	Description	Price
FLT010010	Cobalt Blue Glass	£7.54



Welding Filter

Shade 10. Ideal for use when viewing burning magnesium. Size: 80 x 105mm.

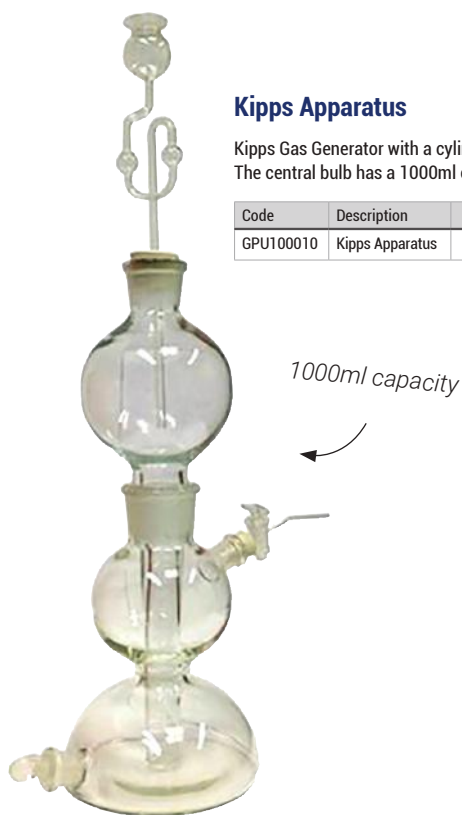
Code	Description	Price
FLT030011	80 x 105mm	£0.79

Ideal for use when
viewing burning
magnesium

Kipps Apparatus

Kipps Gas Generator with a cylindrical base. The central bulb has a 1000ml capacity.

Code	Description	Price
GPU100010	Kipps Apparatus	£83.91



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Flame Flume

Great for starting a science lesson on properties of gases, this unique piece of apparatus, assembled in seconds, allows you to demonstrate the properties of invisible carbon dioxide gas by having it flow 'downhill' extinguishing the candles in its path. NB: generator such as Sodium Bicarbonate (sodium hydrogen carbonate) and vinegar (dilute ethanoic acid) is required.

Code	Description	Price
NPD040020	Flame Flume	£56.93

**BEST
SELLER**

For preparing and
collecting gases
over water



Gas Preparation Kit

A gas preparation kit for preparing and collecting gases over water (displacement of water or pneumatic trough collection) e.g. carbon dioxide, hydrogen and oxygen. Kit contains a plastic trough and lid, a test tube with side arm, delivery tube and rubber tubing connector, thistle funnel, test tube stand, glass beehive shelf with chimney and five test tubes (150 x 24mm) with stoppers.

Code	Description	Price
GAS040010	Gas Preparation Kit	£53.88

**BEST
SELLER**

**INVESTIGATE ANY
ASPECT OF THE
IDEAL GAS LAW**



Ideal Gas Law Wireless Bundle

This bundle includes the Ideal Gas Law Apparatus (PAS060010), Wireless Temperature Sensor Link (PS-3222), and Wireless Pressure Sensor (PAS200520). This will enable users to investigate any aspect of the ideal gas law by changing, measuring and graphing the relationship between any of the three variables. Students can confirm and predict results of Charles's, Boyle's, Gay Lussac's, and Avagadro's laws and hypothesis.

Code	Description	Price
PS-3310	Ideal Gas Law Wireless Bundle	£504.74

**Gas Jars**

Glass.

Code	Description	Price
GJR010010	150 x 50mm	£6.20
GJR010020	200 x 50mm	£7.80
GJR010030	250 x 50mm	£8.19

**PACK OF 50****Gas Jar Lid**

Gas Jar Covers, 75mm.

Code	Description	Price
GJR020020	75mm	£5.20

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**Gas Syringe, 100ml**

Glass Gas Syringe, Vertical 1ml Graduations, Neutral Borosilicate Glass.

Code	Description	Price
SYR030071	Gas Syringe	£24.10

**Gas Syringe with Capillary Tube**

Fortuna precision gas syringes, borosilicate glass, clear calibrated cylinders, graduations, acid and alkali resistant, and amber stain diffused. It is well known that gas volumetric analyses are indispensable to a better understanding of the fundamental principles of chemistry.

Code	Description	Price
SYR180010	25ml	£50.78
SYR180020	50ml	£58.43
SYR180030	100ml	£66.87

**PACK OF 2****U Form Absorption Tubes**

Absorption Tube, U Form, Plain.

Code	Description	Price
ABT010010	100 x 12mm	£5.76
ABT010020	125 x 15mm	£5.63

**PACK OF 2****U Form Absorption Tubes with Side Arms**

Absorption Tube, U Form with Side Arms.

Code	Description	Price
ABT020010	100 x 12mm	£8.73
ABT020020	125 x 15mm	£7.79

Straight Form Absorption Tube

Straight form absorption tube with one bulb.

Code	Description	Price
\$ABS060010	100 x 12mm	£2.28





Organic Chemistry Kit No 1 (27BU)

This set contains 9 items with 14/23 joint size for maximum versatility. Housed in die cut foam lined box.

Code	Description	Price
SCX020010N	Organic Chemistry Kit No 1 (27BU)	£39.06



Organic Chemistry Kit 14/23

This Aplus Interchange organic chemistry kit includes everything you will need for chemistry experiments, comprising a range of items all with ground glass joints. Kit comes in a hard case with a foam insert designed to cushion all of the parts, increasing safety, and a convenient storage case.

Code	Description	Price
QCS010016	Organic Chemistry Kit 14/23	£203.85



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Made from
borosilicate
glass

Column Vigreux

Column, Vigreux, Borosilicate Glass,
360mm, 24/29.

Code	Description	Price
QCK020016	Column Vigreux 24/29	£74.07



Adapter, Inlet Or Thermometer

Adapter, Inlet Or Thermometer. With a compression cap and Viton O-ring to form a vacuum tight seal. To use a syringe port, simply replace the O-ring with Teflon lined septum. Cap accommodates 5.0 - 7.5 OD thermometer. Made from high quality borosilicate glass, manufactured to ASTM standards.

Code	Description	Price
QAC010016	Adapter, Inlet Or Thermometer 14/23	£37.74

PACK
OF 2



Still Head Adapter

These popular distillation adapters are used in most distillation assemblies, connecting a condenser to flask. Top socket can be used for a thermometer using a screwthread adapter or thermometer pocket. Manufactured from high quality borosilicate glass and to ASTM standards.

Code	Description	Price
QSH010026	Still Head Adapter 14/23	£23.30

MANUFACTURED
TO ASTM
STANDARDS



Liebig Condensers

These jacketed condensers are the most commonly used in distillation and reflux applications. Manufactured to ASTM standards and from high quality borosilicate glass. With detachable plastic screwthread connectors, providing safety when connecting rubber tubing.

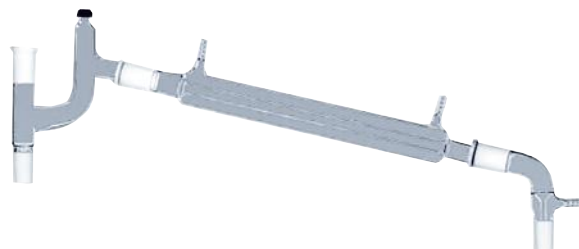
Code	Description	Price
QCD010046	320mm 24/29	£39.73
QCD010016	290mm 14/23	£33.84



Distillation Apparatus

Borosilicate glass. Joint Size 19/26. Comprised of the following apparatus: round-bottom boiling flask 500 ml; still head; liebig condenser; receiver adapter; separating funnel with stopper. Supplied without glass beaker and metal stands.

Code	Description	Price
340-004	Distillation Apparatus	£143.21



Distillation Apparatus, One Piece

This apparatus has all you need for distillation all in one apparatus. Easy to set up and angled ready for use. No air leakages and no liquid hold up at the joints due to seamless connections. Manufactured to ASTM standards, made from high quality borosilicate glass.

Code	Description	Price
QCD080016	Distillation Apparatus, One Piece	£114.43

**ALL YOU NEED FOR
DISTILLATION IN
ONE APPARATUS**



Dreschel Bottle

Dreschel Bottles, borosilicate glass 250ml 24/29.

Code	Description	Price
QDB020026	Dreschel Bottle	£17.00



Dreschel Bottle Plain Head

Supplied with a plain head.

Code	Description	Price
QDB010036	Dreschel Bottle Plain Head	£19.67



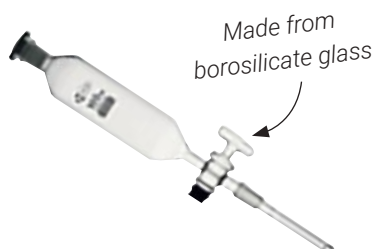
Dropping Funnels

This Aplus Interchange dropping funnel has a PTFE needle valve stopcock for precise control of the liquid flow. Manufactured from the highest quality borosilicate glass, with ground sockets and cones, allowing easy intergration with other jointed glassware. Made to ASTM standards.

Code	Description	Price
QFC030016	Dropping Funnels	£57.92

Expert Advice

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Made from
borosilicate glass

Cylindrical Funnels

Funnel dropping cylinder with PTFE stopcock. Borosilicate glass, 100ml.

Code	Description	Price
QFC040016	100ml 14/23	£29.58
QFC040026	100ml 19/26	£33.20



Single Neck Pear Shaped Flasks

Ideal for semi-micro distillations. With ground glass socks and a single neck. The pear shaped design allows distillation of small quantities, there is minimum hold up which reduces losses from thermal decomposition. Manufactured from high quality borosilicate glass and to ASTM standards.

Code	Description	Price
QFP040016	50ml 14/23	£11.85
QFP050016	100ml 14/23	£17.01
QFP040026	50ml 19/26	£11.85



MANUFACTURED TO ASTM STANDARDS

Twin Neck Pear Shape Flask

Two neck pear shaped flasks with ground glass sockets. With one vertical centre neck and one angled side neck. Manufactured from high quality borosilicate glass and to ASTM standards, these flasks are resistant to thermal shock.

Code	Description	Price
QFP060016	50ml 14/23	£36.07



Round Bottom Short Neck Flasks

Aplus interchange flask for everyday use. With high quality ground glass socket and short neck. Manufactured from high quality. Borosilicate glass and to ASTM standards, these flasks are resistant to thermal shock.

Code	Description	Price
QSR010016	100ml, 14/23	£13.74
QSR030026	250ml, 19/26	£15.14
QSR005086	50ml, 14/23	£10.34

Plain Receiver Adaptors

Ideal for use with condensers. They are used to feed distillate from condensers into the receiving vessel. Ground glass sockets with a tapered drip tube that extends into open receivers, available with a short and long stem. Manufactured from high quality Borosilicate glass and to ASTM standards.

Code	Description	Price
QPD020026	Long 14/23	£18.19
QPD010016	Short 14/23	£18.05



*Ideal for use with
condensers*



Joint Clips

Colour coded according to size, making them easy to identify, Ideal for connecting jointed glassware.

Code	Description	Price
QJC020036	Joint Clips, 14/23	£30.74
QJC020046	Joint Clips, 19/26	£30.70
QJC020056	Joint Clips, 24/29	£30.70

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Received Bend With Vent

Similar to the Aplus plain bends, however, they include a vent that allows gases from a distillation reaction to vent out. Avoids problems from closed systems by venting out gases. Ground glass sockets and cones manufactured from high quality borosilicate glass and to ASTM standards.

Code	Description	Price
QRB010026	14/23	£24.88



Joint clips PTFE

Plastic Joint Clip, B14, PTFE.

Code	Description	Price
QJC010036	Joint clips PTFE	£32.42



**BEST
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**IDEAL FOR
EDUCATION USE**

Digital Melting Point Apparatus

The SMP range has been designed with safety and ease of operation in mind making it ideal for use in education. The temperature is selected, measured and displayed digitally making it accurate and negating the need for a thermometer. Two samples can be tested simultaneously. They are viewed via a magnifying lens with clear observation aided by built in illumination. Extendible back feet allow the unit to be operated at the optimum viewing angle. Full access to the block aids cleaning. Digital selection & display of temperature. High accuracy. Easy to operate with plateau facility. Ideal for education use. With BioCote antimicrobial protection.

Code	Description	Price
MPA040010	Stuart SMP10 Digital Melting Point Apparatus	£898.37



Analogue Melting Point Apparatus

The SMP11 measures the melting point of chemicals from ambient to 250°C. Samples need to be placed in a sealed end capillary tube and located in the heating block. Up to three tubes can be tested at one time. The heating rate can be adjusted manually between 20°C/min for rapid heating and 1°C/min to obtain an accurate melting point range. The sample and melt process can be viewed via the magnifying lens, which is illuminated by bright LEDs. Record the melt temperatures from the thermometer, positioned horizontal to the samples to allow simultaneous viewing. Comes complete with thermometer and pack of 100 melting point tubes (open both ends).

Code	Description	Price
MPA010020	Stuart SMP11 Analogue Melting Point Apparatus	£736.18
MPA010530	Brass Cooling Plug	£30.53
MPA010520	Spare Spirit-Filled Thermometer	£47.59



Melting Point Tubes

VITREX melting point tubes are quality products perfect for handling and transporting small volumes of liquid, melting point determinations and many other purposes. The tubes are uniform and are cut at right angles.

Code	Description	Price
MPA020005	Open ended, Pack of 100	£34.99
MPA020010	Open ended, Pack of 1000	£46.54



Melting Point Block

Basic equipment for determining melting point of substances. Consists of an aluminium block with hole for thermometer. Ideal for individual student use.

Code	Description	Price
EDU990T	Melting Point Block	£26.86



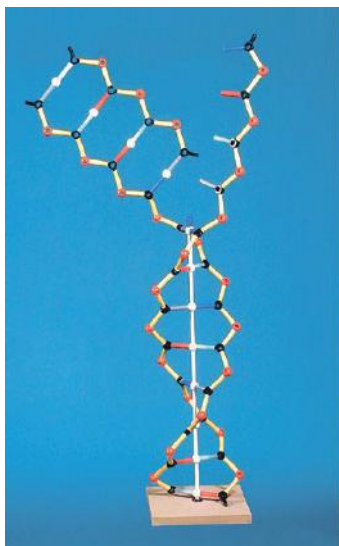
Perfect for any
home,
school or
professional
science
laboratory

Thiele Melting Point Tube

Thiele Melting Point Tube made of high quality, heavy duty, 3.3 borosilicate glass. Can be used to determine the melting point of organic compounds. Total length of 6" (150mm) and 1" (25mm) tube diameter. Perfect for any home, school, or professional science laboratory.

Code	Description	Price
CH0884	Thiele Tube	£10.99

Available as a kit for easy self-assembly, with building instructions and transcription activity guide



Orbit DNA-RNA Model

This model shows a 12 base pair section of DNA in the process of transcribing RNA. Simple and easy-to-use it is ideal for demonstrating the nature of DNA and RNA and how DNA transcribes RNA. The model shows the five bases in red, green, blue, grey and white, the sugar rings in black, and the phosphate groups in red. Yellow tubes join the sugar and phosphate groups. White pieces show the hydrogen bonding between the bases. The separate pieces can be joined and un-joined so you can demonstrate the transcription of RNA. Available as a kit for easy self-assembly, with building instructions and transcription activity guide.

Code	Description	Price
MLM045010	Orbit DNA-RNA Model	£44.17



Unit Large Demonstration Set

Easily make models of hydrocarbons, alcohols, amines, organic and inorganic acids and bases, carbohydrates, benzene, chlorinated molecules, inorganic molecules and more that the whole class can see. Structures can be seen from the back of the class or lecture hall. Durable atoms and metal tubes ensure long-lasting models. Sturdy pegs join all atoms and bonds at any bond angle. Easy to handle, build and take apart. Bonds and atoms are to scale for accuracy at 8.5cm per 100pm. Full range of supplementary atoms, bonds and orbitals available.

Code	Description	Price
MLM080010	Unit Large Demonstration Set	£220.61

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Chemical Jigsaws

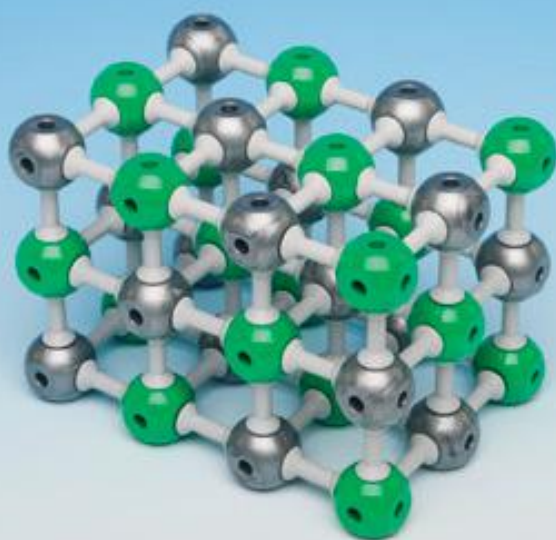
Chemical Jigsaws offer a new and highly effective method of teaching chemical formulae and equations. They use a number of interlocking pieces with plus signs and arrows that enable students to build representations of covalent and ionic compounds and also to model equations. They offer students a more effective understanding of formulae. The parts are translucent and can be placed on an OHP. The formulae can be identified by shape, colour and identifying symbols / formulae can be written on them in felt-tip pen. Available in two boxed sets. Please Note: the Junior (KS3) kit is required prior to the Senior (KS4 upgrade) kit (MLM 060 030).

Code	Description	Price
MLM060020	Junior Chemical Jigsaw Kit	£20.05
MLM060030	Senior Chemical Jigsaw Kit	£20.05

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Molymod® Ionic Crystal Structures

Molymod inorganic kits contain a sufficient quantity of molymod atom parts and links to make individual structures, e.g. sodium chloride, diamond, ice or metals. The kits are supplied in plastic boxes with assembly instructions. Some substances e.g. calcite, are only supplied as pre-assembled models. The models are of two kinds, either OPEN models which use standard grey links to give extended structures, or COMPACT models which use short links and bring the atoms close together giving a semi-space filling type of model.

Code	Description	Price
MMD010010	Sodium Chloride	£18.65

Expert Advice

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Molymod® Covalent Crystal Structures

Molymod inorganic kits contain a sufficient quantity of molymod atom parts and links to make individual structures, e.g. sodium chloride, diamond, ice or metals. The kits are supplied in plastic boxes with assembly instructions. Some substances e.g. calcite are only supplied as pre-assembled models. The models are of two kinds, either OPEN models which use standard grey links to give extended structures, or COMPACT models which use short links and bring the atoms close together giving a semi-space filling type of model.

Code	Description	Price
330-005	Diamond Kit	£15.26
330-006	Graphite Kit	£21.92
330-007	Buckminster Fullerence Kit	£24.42
330-017	Silicon Dioxide Kit	£23.77
MMD030060	Ice Kit	£27.74



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Molymod® Organic Chemistry, Teacher Set

Molymod Molecular Models: Organic Chemistry, Teacher Set-Designed to make OPEN and CLOSED models of the standard organic compounds which are included in school or introductory university Chemistry courses, eg alkanes and hydrocarbon derivatives including oxygen, nitrogen, halogen and sulfur. Models can be used for conformation and stereo isomerism investigations.

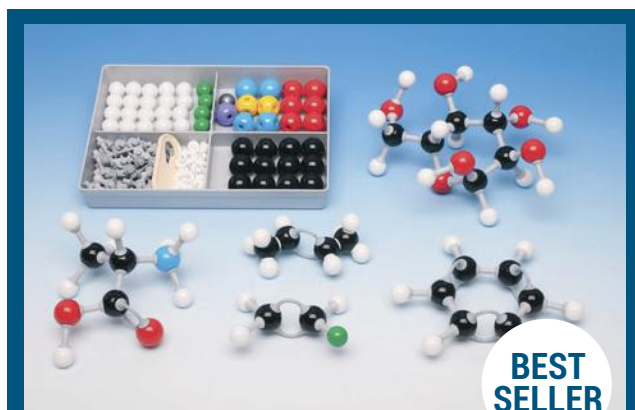
Code	Description	Price
MMD040010	Molymod® Organic Chemistry, Teacher Set	£38.36



Molymod® Inorganic/Organic Chemistry, Teacher Set

Molymod Molecular Models: Inorganic/Organic Chemistry, Teacher Set-This versatile molecular model set is designed to make OPEN models of elementary organic and inorganic molecular and empirical formula structures. Ideal for school use from Primary to A-Level organic chemistry.

Code	Description	Price
330-032	Molymod® Inorganic/Organic Chemistry, Teacher Set	£43.58



Molymod® Organic Chemistry, Student Set

Molymod Molecular Models: Organic Chemistry, Student Set - 53 Atoms.

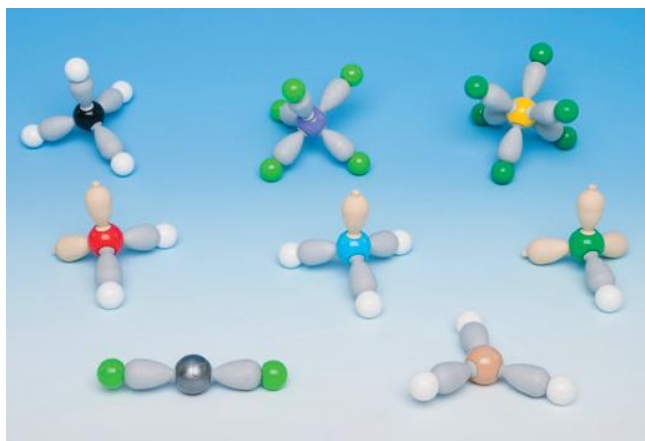
Code	Description	Price
330-035	Molymod® Organic Chemistry, Student Set	£20.69



Molymod® Inorganic/Organic Chemistry, Student Set

Molymod Molecular Models: Inorganic/Organic Chemistry, Student Set-Contains a varied mix of atom parts to make OPEN models of elementary organic and inorganic molecular and empirical formula structures.

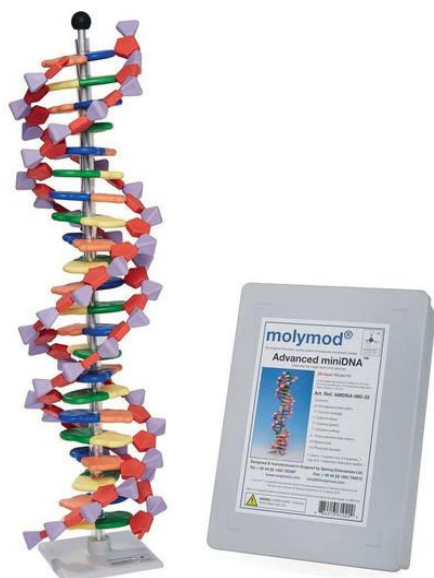
Code	Description	Price
330-036	Molymod® Inorganic/Organic Chemistry, Student Set	£21.81



Molymod® Electron Repulsion Theory Models

Molymod Electron Repulsion Theory Models-8 model collection set. This set contains sufficient parts to make the eight atomic models shown in the photograph. The different shapes are examples of the orientations of the bonds and cover co-ordination numbers 1 to 6. Lone pairs are represented by brown spheres or brown pear shaped parts. The 2 extra pear shaped parts are included in the set to enable protonated models to be made, e.g. Acid/Base theory.

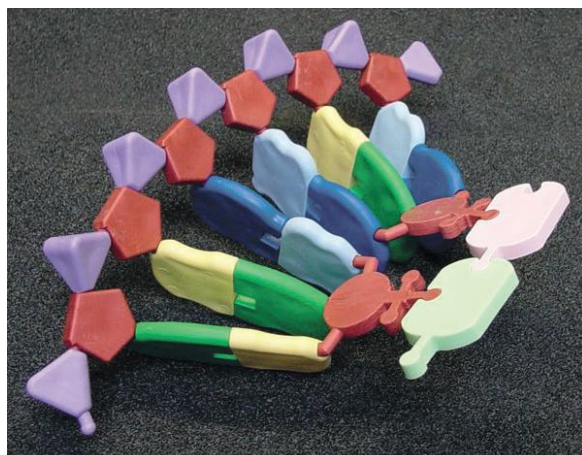
Code	Description	Price
MMD100010	Molymod® Electron Repulsion Theory Models	£18.65



miniDNA® Molecular Model Kit

The advanced miniDNA system comprises shaped colour coded parts to represent the nitrogenous bases, pentagonal sugar & pyramidal phosphate component parts present in the Double Helix of DNA. The kit includes differently sized pyrimidines to purines, hydrogen bonds represented by correct number of pegs and minor and major grooves are shown.

Code	Description	Price
MMD120011	miniDNA® Molecular Model Kit - 12 Layer	£23.11
404-010	miniDNA® Molecular Model Kit - 22 Layer	£42.72



Molymod RNA Protein Synthesis Kit

The advanced miniDNA system comprises shaped colour coded parts to represent the nitrogenous bases, pentagonal sugar & pyramidal phosphate component parts present in the Double Helix of DNA. The kit includes differently sized pyrimidines to purines, hydrogen bonds represented by correct number of pegs and minor and major grooves are shown. Available in a choice of 2 kits to make either a 12 layer or 22 layer DNA model. The model can be uncoiled and separated to produce two strands, ideal for modelling DNA replication.

Code	Description	Price
MMD120501	12-Base RNA Protein Synthesis Kit	£13.45

molymod®

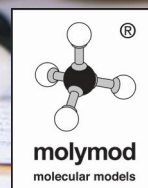
The *original* dual-scale system of molecular models

Start making science more hands-on with the range of classroom sets, structure kits and systems designed in the UK from Molymod®

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- Organic / inorganic chemistry, biochemistry and general science
- For use by students and teachers at school, college or university
- Atom parts range in size from 17 to 23 mm



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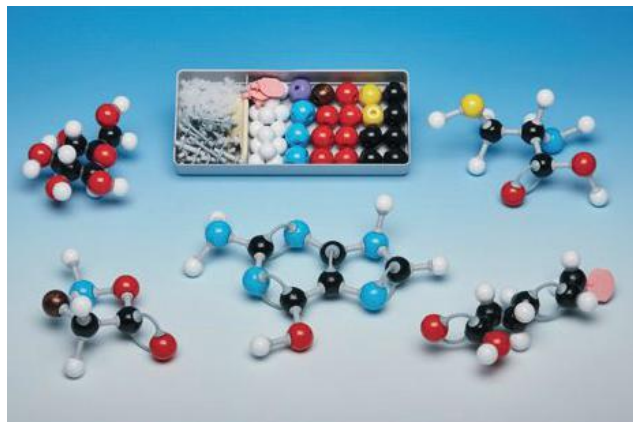




Molymod® Advanced Level Chemistry Set

This set is designed for use by students working on their own or in pairs, in a classroom under the supervision of a teacher, or as a revision aid. This new molymod set contains a total of 34 atoms and comes with both standard open and compact links to make either open or compact models. Also included are three flat pink paddles to represent groups. Contents: 34 Atoms and 88 links. 14 Hydrogen, 7 Oxygen, 3 Nitrogen, 6 Carbon, 2 Sulphur, 1 Copper, 1 Phosphorus, 3 Pink R-Groups 26 grey single bond links, 12 grey multiple bond links, and 50 compact model links.

Code	Description	Price
330-030	Molymod® Advanced Level Chemistry Set	£25.70



Molecular Model Set for Biological Sciences

This set is designed for use by students working on their own or in pairs, in a classroom under the supervision of a teacher, or as a revision aid. This new molymod set contains a total of 34 atoms and comes with both standard open and compact links to make either open or compact models. Also included are three flat pink paddles to represent groups. Contents: 34 Atoms and 88 links. 14 Hydrogen, 7 Oxygen, 3 Nitrogen, 6 Carbon, 2 Sulphur, 1 Copper, 1 Phosphorus, 3 Pink R-Groups 26 grey single bond links, 12 grey multiple bond links, and 50 compact model links.

Code	Description	Price
MMD190010	Molymod® Advanced Level Chemistry Set	£13.14

Molymod® Replacement Components

Molymod Replacement Components - Other component parts are available. Please contact Customer Services with your requirements.

Code	Description	Price
MMD180010	Molymod® Replacement Components - Hydrogen - Pack of 10	£2.52
MMD180020	Molymod® Replacement Components - Oxygen - Pack of 10	£3.63
MMD180040	Molymod® Replacement Components - Carbon - Pack of 10	£4.32
MMD180050	Molymod® Replacement Components - Medium Grey Link - Pack of 25	£2.43
MMD180060	Molymod® Replacement Components - Long Grey Link - Pack of 25	£2.64
MMD180070	Molymod® Replacement Components - Halogen/Chlorine Model - Pack of 10	£2.52

Other component parts available upon request



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Buffer Solution Sachets

20ml calibration sachets are quick and easy, and come in a variety of pH values. No need to mix powders or dilute, just tear off the top and insert your electrode or pocket meter for guaranteed measurement.

Code	Description	Price
PHA010010	pH 4.01	£34.61
PHA010020	pH 7.01	£34.61
PHA010030	pH 10.01	£36.77

Pocket pH Tester

Quite simply our most popular pH tester, the Checker is a real favourite with its clear LCD display, long thin pH electrode and ease of operation.

Simple to use, small enough to pop in a pocket and exceptionally well-priced it is an ideal budget-conscious pH tester.

Code	Description	Price
EDU1032	Pocket pH Tester	£55.11



Hanna Edge pH Meter

Single parameter pH meter features user-friendly tablet design with bench, portable or wall mount options for ultimate flexibility. Switch from portable to bench in the same procedure or clear the surface for easier working and hang on the wall.

Code	Description	Price
EDG010040	Edge pH Meter	£443.52

*User-friendly
tablet design***IDEAL FOR
STUDENT USE**

pHep pH Tester

A simple to use low cost pocket pH tester reading from 0 to 14pH. Ideal for student use, the pHep has a large easy to read LCD screen and sliding on/off switch. Can be manually calibrated at two points.

Code	Description	Price
PHM100010	pHep Pocket Tester	£62.32

Pocket pHep4 Water Resistant pH Tester

Water resistant, accurate and portable, these handy little pocket meters are true go anywhere pH testers with replaceable electrodes. Dual LCD screen displays pH and temperature simultaneously. The exposed temperature sensor provides fast response time and the replaceable pH electrode helps to prolong the life of the meter. Electrode features stainless steel round connector ensuring there are no pins to bend or break during replacement. Exposed temperature sensor provides fast response time. This pocket pH tester is easy to use with a two button operation and offers 0.1 pH resolution and +/- 0.1 pH accuracy.

Code	Description	Price
PHM310010	pHep4 Water Resistant pH Tester	£122.36

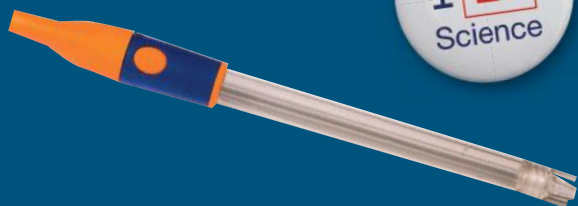


Pocket pHep5 Water Resistant pH Tester

Water resistant, accurate and portable, these handy little pocket meters are true go anywhere pH testers with replaceable electrodes. Dual LCD screen displays pH and temperature simultaneously. The exposed temperature sensor provides fast response time and the replaceable pH electrode helps to prolong the life of the meter. Electrode features stainless steel round connector ensuring there are no pins to bend or break during replacement. Exposed temperature sensor provides fast response time. This pocket pH tester is easy to use with a two button operation and offers 0.01 pH resolution and +/- 0.05 pH accuracy.

Code	Description	Price
PHM310020	pHep5 Water Resistant pH Tester	£138.95





pH Electrode with Soaker Bottle

This epoxy bodied P14 probe comes fitted with a soaker bottle to keep it wet, a bottle of partial gel with a syringe to enable refilling when necessary, and bottles of both cleaning and storage solution. Includes instruction sheet. pH Range: 0-14 .Temp Range: 0-70°C. Dimensions: 12 x 120mm .Ref. Type: Ag/AgCl.

Code	Description	Price
PHD150055	pH Electrode with Soaker Bottle	£56.60



pH Bench Meter

A professional quality bench pH meter with large 18mm LCD Display. Power: 1x 9V alkaline battery (supplied separately). BNC electrode connector (Electrode not included) Spill proof front panel. Range: 0-14pH. Resolution: 0.01pH. Dimensions: 147 x 117 x 52mm. Weight: 250g.

Code	Description	Price
PHM990010	pH Meter Bench	£72.75



pH Electrode for PHM990010

General purpose & field use. Compatible with ZPH-202 pH Meter (PHM 990 010). BNC connector. Epoxy body 1-13pH. 12.3mm dia x160mm.

Code	Description	Price
PHM990500	pH Electrode for PHM990010	£61.99



P11 Sentek Model pH Electrode

Combining ergonomic practicality with unrivalled performance, these electrodes also feature: Extremely fast response. Virtually unbreakable construction. Exceptionally stable reference system. Snap action closure for easy refilling and zero leakage.

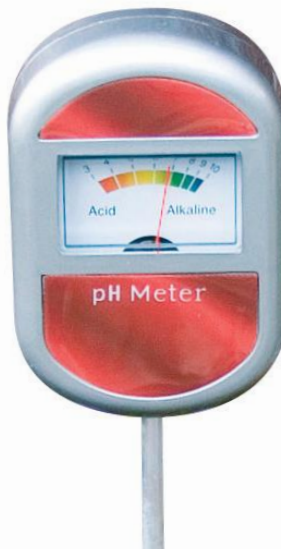
Code	Description	Price
PHD150020	P11 Sentek Model	£39.47



Rapitest® Soil Testing Kit

Soil test kit containing four simple tests to determine the pH, N (nitrogen), P (phosphorus) and K (potassium) status of the soil. Simple to use: soil is mixed with water, allowed to settle and the solution is transferred to the special test containers.

Code	Description	Price
SOT040010	Rapitest Soil Testing Kit	£110.65



**INSTANTLY TELLS YOU
HOW ACID OR ALKALINE
YOUR SOIL IS**

Soil pH Meter

Instantly tells you how acid or alkaline your soil is and checks which plants suit your garden. Includes a plant care listing for over 400 pH levels.

Code	Description	Price
SOT060010	Soil pH Meter	£18.49



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battery life

NEW



Wireless pH Sensor

The Wireless pH Sensor is a must-have for any chemistry, biology, or environmental science course. Equally capable in the lab or field, the sensor eliminates the hassle of cables, reducing spills and improving safety. Plus, it rarely requires charging; the sensor's coin cell battery lasts for 2-3 years in most labs and costs about costs very little to replace. It can transmit data in real time, or store data for days when continuous monitoring is required.

Code	Description	Price
PAS200510	Wireless pH Sensor	£138.14

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Code	Description	Price
PS-3210	Wireless Conductivity Sensor	£194.24



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- Battery Error Prevention Systems (BEPS)

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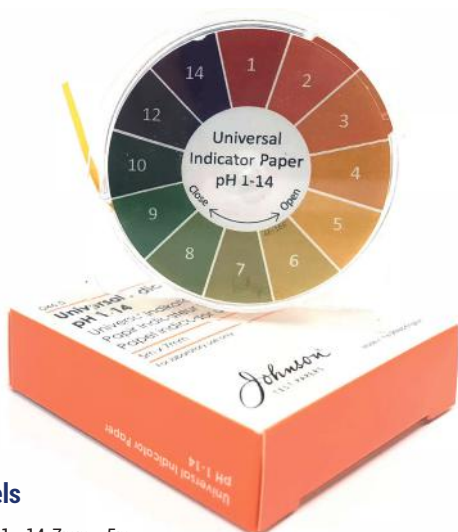
Indicator Paper Books

Universal Indicator Paper Books, pH 1.0-14. 0-20 leaves per book, 10 books per box.

Code	Description	Price
IND010005	Indicator Paper Books	£4.05

Expert Advice

Our experts are always happy to help, call on: **01902 402 402**



Test Paper Reels

Test Paper Reels, pH 1 - 14-7mm x 5m.

Code	Description	Price
IND010211	Test Paper Reel	£3.81

Polypropylene Universal Indicator Strips

Polypropylene Universal Indicator Strips, pH 1.0 -14-The indicator pads on these environmentally friendly strips are prepared as a non bleed system therefore the resultant colour change remains far longer and readable until the pad is dry. Each strip is long enough to protect the user from the test solution as the test pads are at the extreme end of the strip.



Code	Description	Price
IND130010	PP Indicator Strips	£3.57



Red Litmus Paper

Red (Alkali Test) Litmus Paper-Supplied in books of 20 leaves, 10 books per box. Each leaf 9mm x 50mm.

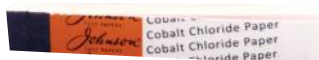
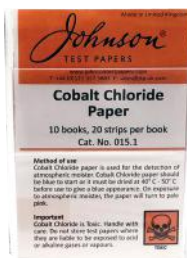
Code	Description	Price
IND120031	Red Litmus Paper	£3.23



Blue Litmus Paper

Blue (Acid Test) Litmus Paper-Supplied in books of 20 leaves, 10 books per box. Each leaf 9mm x 50mm.

Code	Description	Price
IND120011	Blue Litmus Paper	£3.23



Cobalt Chloride Paper

Our Cobalt Chloride Test Paper can quickly and economically measure the presence of relative humidity in the atmosphere. The paper is directly exposed to the atmosphere and turns from blue to pink upon contact with relative humidity greater than 2%. 10 Books of 20 Strips.

Code	Description	Price
IND010100	Cobalt Chloride Paper	£5.99

**GLOBALLY KNOWN
FOR THEIR
ACCURACY & QUALITY**



J-QUANT Chloride 3000

Globally known for their accuracy and quality. They provide semi-quantitative results for ions, organic compounds, inorganic compounds and match the ever demanding needs of a rapid test.

Code	Description	Price
276.1S	J-QUANT Chloride 3000 (100 strips)	£26.32

Reliable and
cost effective

J-QUANT Chlorine 300

Chlorine in solution such as chlorinated disinfectants or sanitisers can be measured easily and rapidly with this basic, reliable and cost effective test. There are no reagents to mix as everything is on the test strip for the reaction to occur. Depending on the level being determined, a solid result can be seen in less than one minute.

Code	Description	Price
TST020022	J-QUANT Chlorine 300 (100 Strips)	£14.81



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Chlorine Free Test Kit

Single parameter water test kit. A range of simple to use chemical test kits to measure a selection of important environmental parameters. Step by step instructions are included along with all necessary apparatus to perform the tests.

Code	Description	Price
YFS300020	Chlorine Free Test Kit	£27.81

J-QUANT Nitrate / Nitrite 80/500

The J-QUANT® Nitrate 500 tests are used for determining the amount of nitrate in drinking water, process water and wastewater, as well as aquarium water.



Code	Description	Price
IND200110N	J-QUANT Nitrate / Nitrite 80/500 (100 strips)	£13.96



J-QUANT® Water Hardness 500

Hardness test strips 0-50-125-250-500ppm, 100Pk.

Code	Description	Price
TST030012	J-QUANT Water Hardness 500 (100 strips)	£12.71



PHYSICS

ELECTRICAL METERS	56	OPTICS	77
ELECTRICITY & CIRCUITS	58	POWER SUPPLIES	81
ELECTROMAGNETISM	64	RADIOACTIVITY	84
ELECTROSTATICS	66	SIGNAL GENERATORS	86
ENERGY	68	SOUND AND WAVES	87
FORCE & MOTION	71		



ELECTROMAGNETISM



ELECTRICAL METERS



TRANSFORMERS



FORCE & MOTION



Mini Max Ammeter

0-20 Amps DC, Resolution 0.5A.

Code	Description	Price
MMA20	Mini Max Ammeter	£22.54



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Designed to incorporate
features requested by
educational laboratories.



SATZ Digital Voltmeter

This voltmeter and ammeter have been specially designed to incorporate features requested by educational laboratories. Negative scale to clearly demonstrate reverse polarity. Zero adjustment. Dual Scale: Voltmeter -1.5V to 0 to +5V, -5V to 0 to +15V. Ammeter - 0.2A to 0 to +1A, -1A to 0 to +5A.

Code	Description	Price
EMV040011	SATZ Digital Voltmeter	£31.47

Value for money



Mini Max Voltmeter

0-100 Volts, Resolution 1.0V.

Code	Description	Price
MMV100	Mini Max Voltmeter	£22.54



**BEST
SELLER**

SATZ Digital Ammeter

Ideal for school use! Resolution: 0.01A. Range: 0-10A D.C. Accuracy: +2%. Super strong high grade ABS case. Protective display window. Long battery life. Colour coded and shrouded 4mm sockets. Screw locking battery compartment. Dimensions: 95 x 90 x 75mm Large bold 14mm digital LCD display. Power: 1 x 9v 'PP3' size battery included.

Code	Description	Price
EMA050011	SATZ Digital Ammeter	£31.47

**FEATURE 50 MINUTE
'AUTO-OFF'
CIRCUITRY**



Lascells Digital Ammeter

Low power consumption. Spend less time changing batteries with the Lascells Bench Meters. These Digital Bench Meters are housed in robust ABS and PVC cases. Both feature 50 minute 'auto off' circuitry to conserve battery life and an LED indicator prompting battery change when necessary. Supplied with 9V PP3 battery and full instructions.

Code	Description	Price
EMA200010	Digital Ammeter, Each	£32.55

Lascells Digital Voltmeter

Low power consumption. Spend Less time changing batteries with the Lascells Bench Meters. These Digital Bench Meters are housed in robust ABS and PVC cases. Both feature 50 minute 'auto off' circuitry to conserve battery life and an LED indicator prompting battery change when necessary. Supplied with 9V PP3 battery and full instructions.

Code	Description	Price
EMV200010	Digital Voltmeter, Each	£32.55

Economy Multimeter

This is a compact 3½ digit LCD digital manual range multimeter, ideal for educational use.

20 ranges including:

- ✓ Transistor test
- ✓ 10A current test
- ✓ Audible continuity test
- ✓ Diode test
- ✓ Square wave 50Hz frequency test
- ✓ Overload protection on all ranges except 10A DC current range
- ✓ Low battery indication
- ✓ Robust ABS housing, with protective yellow rubberised holster
- ✓ Supplied complete with safety test leads, battery & instructions
- ✓ Designed in accordance with IEC1010 600V Cat II
- ✓ CE Approved
- ✓ RoHS exempt

Code	Description	Price
EMM040010	Economy Multimeter	£10.69



**BEST
SELLER**

Digital Milliammeter

A digital milliammeter able to measure to 199.9mA d.c. with a resolution of 0.1mA. The 3½ digit liquid crystal display has 13mm high digits with a wide field of view unobscured by trailing leads. The display also provides indication of polarity and low battery.

Code	Description	Price
EMA020030	Digital Milliammeter	£38.92



Digital Meter with Shunts

This meter has two attachments included, 0-10 DC Amps and 0-20 DC Volts, so it can be used as an ammeter or as a voltmeter. The basic unit has an input impedance of 100kohm. The resolution is 0.01 and accuracy is $\pm 2\%$.



Code	Description	Price
261-031	Digital Meter with Shunts	£57.38



Moving Coil Ammeter

Moving coil ammeters, DC only, with zero adjustment and 4mm socket terminals. Size: 125 x 80 x 80mm. Scale length: 60mm. 2.5% accuracy, single or dual range models available.

Code	Description	Price
AMTER1A	0-1A	£7.31
AMTER5A	0-5A	£7.31
PH1074B	Dual Range 0-1 & 0-5A	£8.34



Moving Coil Voltmeter

Moving Coil, DC only with 4mm socket terminals. Single range.

Code	Description	Price
PH1080AE	0-15V	£8.61
PH1080AF	0-30V	£8.35

National Grid Simulation

A compact kit to illustrate the way electricity is transported around the country. Comprises two boxes (step up substation and step down substation) and a set of "HIGH TENSION" transmission lines. The clear lid enables students to investigate the wiring of the system. The kit uses touch-proof connectors and comes complete with two SBC lamp holders and lamps.

The kit contains:

- ✓ 2 x Transmission/Receiver boxes
- ✓ 2 x Lamp holders
- ✓ 2 x 12V 21 watt lamps
- ✓ 1 x Set of "HT" leads with touch-proof connectors
- ✓ 2 x Self-assembly fold-away pylons (display purposes only)
- ✓ Experiment instructions included
- ✓ 2 x earthing plugs (additional purchase required) demonstrating the use of the earth in National Grid voltage transportation

Code	Description	Price
NGPSUB	National Grid Simulation Kit	£144.95



National Grid Earth Return System Add on Kit

An additional set of HT leads which demonstrate the use of the Earth as part of the return circuit.

Code	Description	Price
NGEKPUSUB	Mini Max Voltmeter	£14.95



An additional set of HT leads



Electricity Circuits Kit

The Basic Electricity Kit has been designed as a low-cost, attractive and flexible alternative to the circuit-board approach to pupil investigations into simple circuits. Each component such as a switch, rheostat, bulb holder, etc. is mounted on its own individual plastic panel with 4mm sockets. The panels are then formed into circuits by connecting them together using 4mm stackable leads. This equipment is suited not just to teaching basic concepts about circuits, for key stage 2 students, but also has applications for further study into key stage 3 areas. Each kit is supplied in two polystyrene trays which keep the units organised.

Code	Description	Price
231-036	National Grid Earth Return System Add on Kit	£242.95



Digital Coulomb Meter

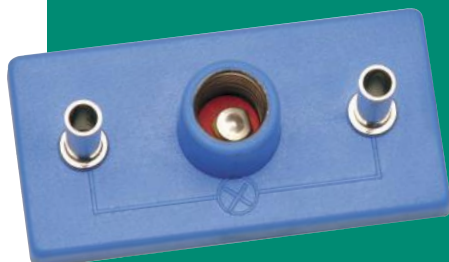
The display shows the number of coulombs deposited into the instrument, either by current through a resistance or from a capacitor, or from a source of static electricity. Displays up to 1999 nC, accuracy $\pm 10\text{nC}$.

Code	Description	Price
231-037	Digital Coulomb Meter	£79.36



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CIRCUITS KITS



Circuits Kit Bulb Holder

Spare components for Circuits Kit code 231-036. Components mounted on sturdy panels for ease of use and storage.

Code	Description	Price
231-038	Circuits Kit Bulb Holder	£4.83

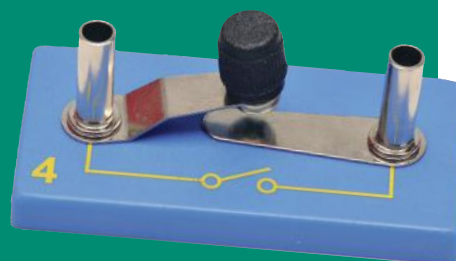


Circuits Kit Cell Holder

Spare cell holder for Circuits Kit code 231-036. Components mounted on sturdy panels for ease of use and storage. Uses 1x D battery.

Code	Description	Price
231-039	Circuits Kit Cell Holder	£2.38

BEST SELLER



Circuits Kit Push Switch

Spare components for Circuits Kit code 231-036. Components mounted on sturdy panels for ease of use and storage.

Code	Description	Price
231-040	Circuits Kit Push Switch	£3.66

Steel fitted
base with 2 x
4mm sockets

NEW



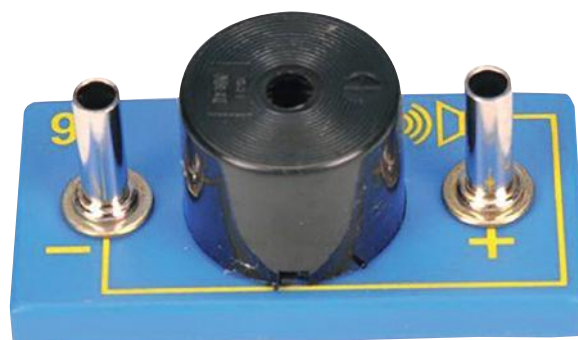
SBC lampholder with 12V, 21W lamp

A durable brass SBC lamp holder mounted on a strong powder coated steel fitted base with 2 x 4mm sockets and supplied with a 12V, 21W lamp. Manufactured in the UK.

Code	Description	Price
SBCPSUB	SBC Lampholder with 12V, 21W Lamp	£9.49

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physics equipment visit

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Circuits Kit Buzzer

Spare components for Circuits Kit code 231-036. Components mounted on sturdy panels for ease of use and storage.

Code	Description	Price
231-041	Circuits Kit Buzzer	£3.16



SciChem Electrical Circuit Kits - Panel

The SciChem Circuit Kits provide everything required for students to safely carry out basic electrical circuit investigations. Two styles are available. The Panel Kit Has all the components mounted on a fixed panel in a plastic storage tray with lid. Connections are made using standard 4mm leads (supplied) and a booklet with pictorial experiment layouts is included. The panel can be removed from the tray for servicing when required but ensures that nothing can go missing. Additional parts can be added alongside as required and stored in the vacant trays.

Code	Description	Price
XEL340010	Electrical Circuit Kits - Panel	£99.45



SciChem Electrical Circuit Kits - Components

The SciChem Circuit Kits provide everything required for students to safely carry out basic electrical circuit investigations. Two styles are available. The Panel Kit Has all the components mounted on a fixed panel in a plastic storage tray with lid. Connections are made using standard 4mm leads (supplied) and a booklet with pictorial experiment layouts is included. The panel can be removed from the tray for servicing when required but ensures that nothing can go missing. Additional parts can be added alongside as required and stored in the vacant trays.

Code	Description	Price
XEL340020	Electrical Circuit Kits - Components	£99.95



Materials Pack

The materials pack provides a set of insulating and conducting pieces. Connection can be made using the crocodile clip leads from the main kit.

Code	Description	Price
XEL340040	Materials Pack	£12.37



Battery Holder with Backplate

The battery pack provides the 1.5, 3, 4.5 and 6V required in the experiments.

Code	Description	Price
XEL340030	Battery Holder with Backplate	£27.35



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Measurements Pack

This pack contains two standard electronic digital multimeters with 4mm stackable plug-leads. They can be used to measure voltage, current and resistance in electric circuits. The instruction leaflet with each meter gives full details of their operation.

Code	Description	Price
XEL340050	Mesurements Pack	£38.40



SciChem Electricity Kits - Panel Kit

The SciChem Electricity Kits provide everything required for students to safely carry out KS3 and KS4 electrical circuit investigations.

Code	Description	Price
XEL340060	Electricity Kits - Panel Kit	£117.49



SciChem Electricity Kits - Component Kit

The SciChem Electricity Kits provide everything required for students to safely carry out KS3 and KS4 electrical circuit investigations.

Code	Description	Price
XEL340070	Electricity Kits - Component Kit	£118.19

**BEST
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Resistors

A full range of resistors for general circuit work and Ohm's Law studies etc. Convenient metric values make for easier student calculations. Power ratings vary.

Code	Description	Price
XLE220010	Resistors	£6.49



Potentiometers 20%

Potentiometers 20% - 0.25W linear carbon track controls. Base size: 60 x 50 x 30mm.

Code	Description	Price
XLE220200	10kohms	£12.88
XLE220220	100kohms	£12.48



Capacitors

A full range of capacitors for general circuit work and electronics. Values 0.1 to 10F are non-electrolytic with no polarity restrictions. 100F to 4700F types are electrolytic and require care in use to get the correct polarity. All values are quoted as 35V maximum for safety. (Individual components may be rated higher than this).

Code	Description	Price
XLE220280	4.7uF 100V	£6.18
XLE220300	100uF 63V	£6.18

A light dependent resistor mounted on a robust base



Mounted Circuit Component LDR

A light dependent resistor mounted on a robust base with 4mm sockets.

Code	Description	Price
XLE220350	Mounted Component LDR	£8.64



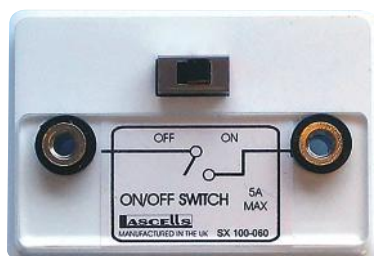
Mounted Circuit Component LEDs

Light emitting diodes with a 330 resistor in series. Available in red, yellow or green.

Code	Description	Price
XLE220360	Red LED	£6.59
XLE220370	Green LED	£6.59
XLE220380	Yellow LED	£6.80



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Mounted Circuit Component Switches

A range of switches to suit almost any application.

Code	Description	Price
XLE220410	On/Off Switch	£8.49
XLE220440	Push Switch	£6.51



Mounted Circuit Component Buzzer

A compact low current piezo sounder complete with drive circuit.

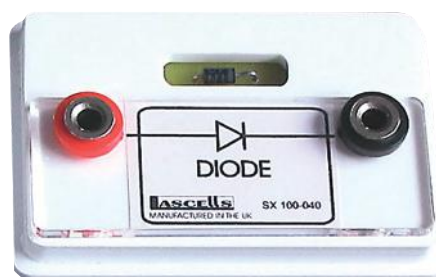
Code	Description	Price
XLE220450	Buzzer	£7.49

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Mounted Circuit Component Diode

A 1N4001 Diode on a robust base.

Code	Description	Price
XLE220470	Diode	£5.83



BEST SELLER



Mounted Circuit Component Lamp Holders

MES bulb holder with 4mm sockets, with or without 6V bulb.

Code	Description	Price
XLE220480	Without Bulb	£6.98
XLE220485	With Bulb	£7.32



Mounted Circuit Component Thermistor

NTC thermistor with 4mm sockets. Bead mounted approximately 10mm from the base allowing students to vary the temperature using their fingers.

Code	Description	Price
XLE220490	Thermistor	£6.83

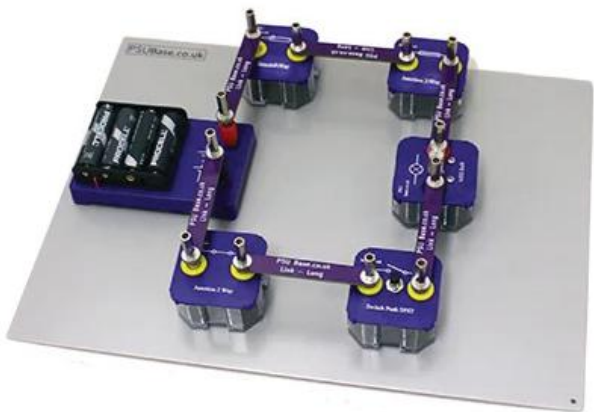
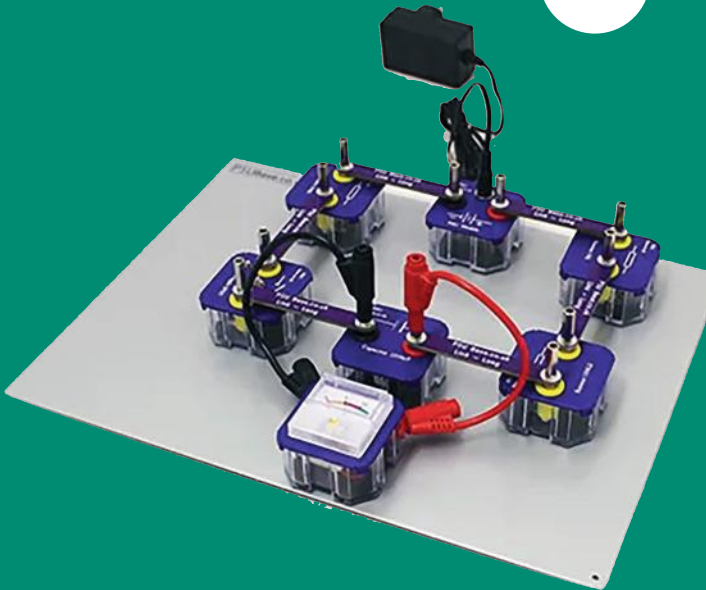
NEW

Mini Max Electricity Comprehensive Kit

Comprehensive Kit Contents:

- ✓ Ammeter & Voltmeter x 1 each
- ✓ Plug Top PSU x 1
- ✓ Plug Top PSU Module x 1
- ✓ MES Bulb Holder x 3
- ✓ Buzzer x 1
- ✓ Capacitor 5 uf Crocodile
- ✓ Clip Plugs x 2
- ✓ Component Link _ Long x 8
- ✓ Component Link - Medium x 2
- ✓ Diode 1N4001 x 1
- ✓ LDR x 1
- ✓ LED - Green x 1
- ✓ LED - Red x 1
- ✓ Baseboard x 1
- ✓ Motor x 1
- ✓ Potentiometer (1k Ohm Variable Resistor) x 1
- ✓ PSU Module (bench PSU) x 1
- ✓ Resistors x 1 (100k, 100, 10k, 10, 1k, 2.2k, 470k)
- ✓ 2 Way Junction Box x 4
- ✓ 3 Way Junction Box x 2
- ✓ Switch - 3 way/change over (SPDT)
- ✓ Switch - Push Type (SPST)
- ✓ Thermister 300ohm
- ✓ 150mm stackable leads red & black x 1 for connecting the voltmeter/ammeter
- ✓ Deep Gratnells tray & lid

Code	Description	Price
EKPSUB02	Mini Max Electricity Comprehensive Kit	£261.21



Mini Max Electricity Starter Kit

This is designed for 2 groups to work independantly.

Kit Contents:

- ✓ Bulb holder - MES x 2
- ✓ Battery holder 6v - holds 4 x AA cells x 2
- ✓ Buzzer x 2
- ✓ Component Link - Long x 8
- ✓ Resistor - 470kΩ (0.5W) x 2
- ✓ Switch - push type (SPST) x 2
- ✓ 2 Way Junction Box x 6
- ✓ Baseboard x 2
- ✓ Gratnells Tray Shallow Purple x 1
- ✓ Gratnell Tray Lid Clear x 1

Code	Description	Price
EKPSUB01	Mini Max Electricity Starter Kit	£149.42

NEW



Mounted Circuit Component Battery Holders

A choice of battery holders with 4mm sockets.

Code	Description	Price
XLE220500	D-Cell Holder	£12.01
XLE220510	C-Cell Holder	£11.45



NEW

Search Coil

Designed to detect fluctuating magnetic fields comprising of a 3,200 turn coil mounted in a perspex handle and is terminated with 4mm plugs. In use, the search coil acts as the secondary of a transformer to detect fluctuating magnetic fields.

Can be used to measure field strength and shape and may also be used to demonstrate transformer action. The search coil is designed to be connected to either an oscilloscope or a 200 mV a.c meter (or multimeter).

Code	Description	Price
SCPSUB	Search Coil	£46.95



Demountable Transformer Kit

Laminated low-loss core for attaching different coils to demonstrate the step up and step down transformer principle. Attractive demountable transformer with clearly labelled coils for GCSE physics and science and A-Level physics demonstrations. The principles used show how transformers are used in domestic electrical appliances and in the National Grid for power transmission. The core (code: PH0849/1) is made up of highly permeable U-shaped metal sheeting, which can be closed via two clamps with tightening screws.

Code	Description	Price
231-021	Demountable Transformer Kit	£168.11



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Coil, Demountable Transformer

Dimensions: 11.5 x 9 x 7cm. Inner: 4 x 4cm.

Code	Description	Price
231-022	50 Turns	£29.91
231-023	100 Turns	£32.17
231-024	200 Turns	£29.30
231-025	500 Turns	£29.24
231-026	1000 Turns	£34.19
231-028	1000 Turns with Mains Connector	£31.14
231-027	2000 Turns	£34.79



Demountable Transformer Accessory Set No. 1

The Edulab Transformer Accessory Set is used to demonstrate that step down transformers can produce currents that are large enough to weld metals or boil water. Requires mains coil (231-028).

Includes: Single ring with handle, 2 coil rings (one complete, one with gap), and 6 turn thick coil with handles.

Code	Description	Price
231-029	Set No.1	£49.60



Demountable Transformer Accessory Set No. 2

Lenz's law transformer accessory to demonstrate the production of large magnetic fields and Lenz's law damping on pendulums with and without slits.

Code	Description	Price
231-030	Set No.2	£49.53

**BEST
SELLER**


Demonstration Motor AC/DC

The Edulab Demonstration Motor produces AC/DC current simultaneously when the hand wheel is turned. The generation of AC/DC Voltage is represented by LED diodes.

Code	Description	Price
231-032	Demonstration Motor	£60.78

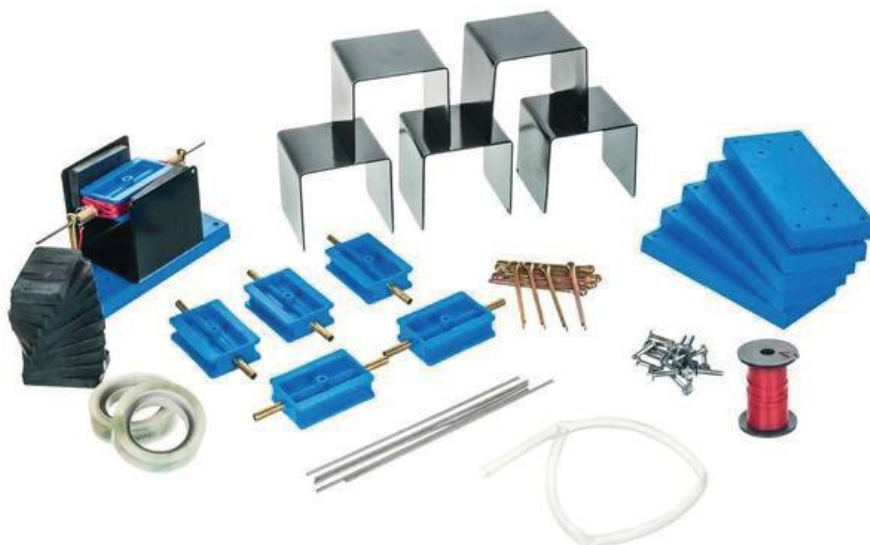
Expert Advice

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Westminster Motor Kit

The kit comprises all the part required to build 6 model motors as in the electromagnetic kit. The kit comprises all the parts required to build 6 model motors as in the electromagnetic kit. Each kit contains 12 pieces of magnets, 6 pieces of armatures, 6 pieces of mild steel yokes, 6 pieces of support bases, 6 pieces of shaft, 24 pieces of rivets, 12 pieces of split pins, 1 reel of 26 s.w.g. PVC tinned copper wire, 2 reels of sellotape, 300mm rubber tubing of 3mm bore.

Code	Description	Price
231-602	Westminster Motor Kit	£66.19



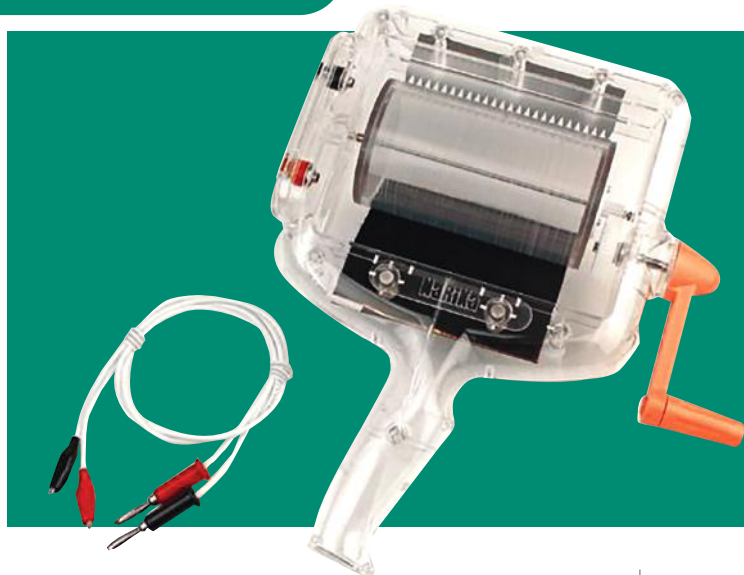
Electromagnet Kit

A comprehensive kit containing the essential items for basic experiments in electromagnetism. General investigation of Magnets, Eddy Current, Force Between Currents and Investigation of the Magnetic Field, are just some of the basic experiments that can be carried out with this kit.

Comprises of 8 ticonal magnets, 8 magnadur magnets, 4 steel yokes, 4 plotting compasses, 4 formers of compasses, 1 bottle fine iron filling (approx. 500g), 4 each double C-cores, 4 clips for C-cores, 2 aluminium rings, 2 split aluminium rings, 4 support bases, 4 armature with axle rods, 8 split pins, 24 rivets, 1 length rubber tubing, 4 formers for coils, 2 rolls of cello tapes, 4 reel of copper wire, 4 sheets plain postcards, 1 reel white cotton, 4 each carbon resistors of 10 ohm & 10 ohms, 8 flash lamp bulbs, 5 neon bulbs, 8 M.E.S. bulb holders, 1 wooden clamp and 4 wooden rods.

Code	Description	Price
KEM007320	Electromagnet Kit	£194.67



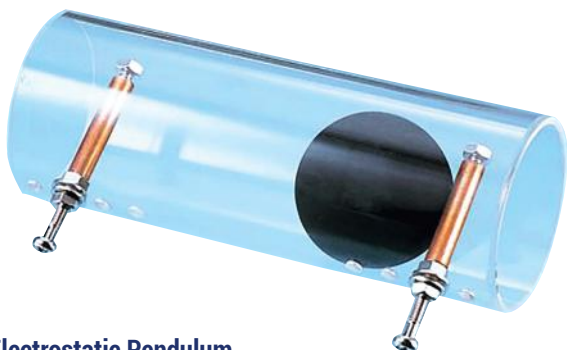


Static Genecon

Hand-held Static-electricity Generator.

- ✓ Replaces traditional "Van de Graaff" generators
- ✓ Allows any experiment on static electricity to be performed in classroom much easier and less costly
- ✓ Easy to realize that there is no motor and no battery generating static electricity because of its transparent body
- ✓ Easy to understand that friction between two different materials can generate static electricity (positive and negative charge)
- ✓ Works well even in high humid and hot conditions

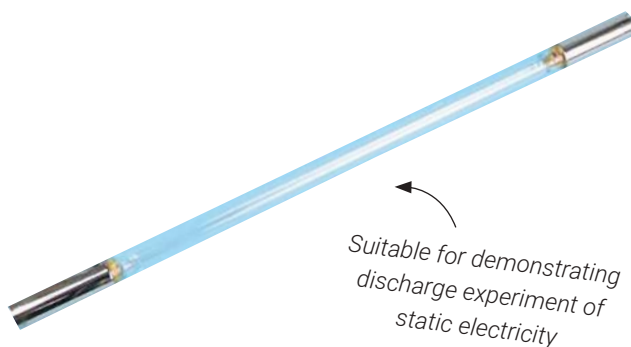
Code	Description	Price
XML300110	Static Genecon	£160.61



Electrostatic Pendulum

Pendulum-type electroscope for Static Genecon. A black ball in pendulum-type electroscope swings backward and forward in between two electrodes electrically charged at high voltage.

Code	Description	Price
XML300115	Electrostatic Pendulum	£48.01



Neon Tube

Larger-size Neon Tube for discharging experiment. Suitable for demonstrating discharge experiment of static electricity, in combination with Static Genecon, because it is about 10 times longer than conventional Neon tube.

Code	Description	Price
XML400010	Neon Tube	£40.37



Aluminium Collecting Sphere

Aluminium Collecting Electrode for Static Genecon. Combination of Static Genecon and aluminium spheres makes the electrostatic experiments of Van de Graaff be able to become smaller-scale experiments.

Code	Description	Price
XML300120	Aluminium Collecting Sphere	£60.36



**BEST
SELLER**

Van De Graaff Generator With Accessory Kit

The Generator consists of a conducting sphere (the dome) supported by a plexiglass pillar and a rubber belt driven by an electric motor concealed in the metal base. Static electrical charge is produced by friction between this band and two rollers, one of polythene, the other of plexiglass.

Code	Description	Price
231-162	Van De Graaff Generator With Accessory Kit	£336.57



Van de Graaff Generator

The Van de Graaff generator can be operated manually or by motor, depending on the placement of the driving belt, to produce extremely high voltages with low current intensity. The sphere can be dismantled. The generator is operated by a 220V AC motor with a motor speed control unit. Spark length: 80mm. Dimensions: 560 x 220 x 220mm (HxWxD) Weight: 7.2 kg Conductors. These conductors are made from brass and are interchangeable on the pillars. Each conductor has an ebonite stem, which is attached to a metal base. Insulated Stool. For use in experiments with static electricity.

Code	Description	Price
XES080010	Van de Graaff Generator	£679.35
XES080500	Spare Rubber Belt	£38.11
XES080510	Spare Drive Belt	£6.18
XES080521	Insulated Stool	£71.04
XES080530	Sphere Conductor	£60.46

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PACK OF 20

Electrostatic Plastic Strips

A pack of 20 strips each measuring 200 x 25 x 2mm. Ten are polycarbonate and ten are polystyrene. When the strips are rubbed with a cloth they acquire opposite electrostatic charge for investigations into attraction and repulsion. Use with stirrups. Investigate electrostatics.

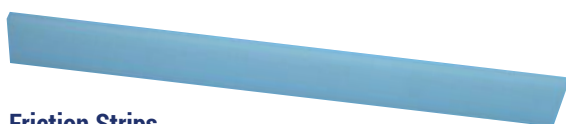
Code	Description	Price
XES010050	Pack of 20 Electrostatic Strips	£23.57



Friction Rods

Available in glass, ebonite and perspex. Size: 300 x 13mm (L x Dia).

Code	Description	Price
XES010010	Glass	£1.15
XES010020	Ebonite	£1.92
XES010040	Perspex	£5.19



Friction Strips

Friction Strip - polystyrene- dimensions: 250 x 25 x 2.5mm.

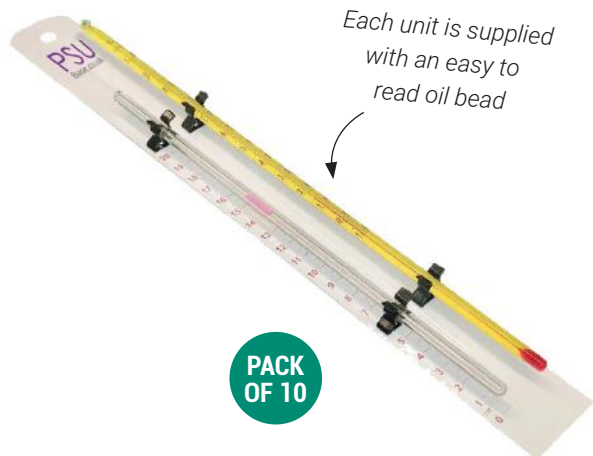
Code	Description	Price
XES010030	Polythene Strip	£1.78



Digital Coulombmeter

For charge detection and measurement. Useful for a wide range of experimental applications including charging by induction, Faraday's Ice Pails, Coulomb's Law and capacitance of an isolated sphere. Housed in a robust, ABS plastic case. 13mm, 3" digit LCD display with low battery indication. Supplied with charge plate and instructions.

Code	Description	Price
XES020010	Digital Coulombmeter	£69.76



Charles' Law Apparatus

Our Charles' Law apparatus is a simple way of demonstrating that the volume of a fixed mass of gas is proportional to its absolute temperature. Our Charles Law apparatus does not use mercury so is safe. Each unit is supplied with an easy to read oil bead and clear measurements ready to use.

- ✓ Height 33.5cm x Width 40cm x Depth 1.5cm.
- ✓ Capillary tube 0-20cm reading.
- ✓ Thermometer - 10 - 70 degrees centigrade.
- ✓ Available as singles or as a classpack of 10.

Code	Description	Price
CLAPSUB	Charles' Law Apparatus - Each	£18.44
CLAPSUB10	Charles' Law Apparatus - Class pack of 10	£175.00



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science lab
procurement**

See page 8 for details



Calorimeter Blocks

These calorimeter blocks have two holes, one for the immersion heater and one to take a thermometer. Range of brass, copper, steel and aluminium. (1000g 2%).

Code	Description	Price
XHE010010	Brass	£38.11
XHE010020	Copper	£42.95
XHE010030	Steel	£7.91
XHE010040	Aluminium	£25.75

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Immersion Heater 12V

50W 12V Immersion heaters suitable for calorimeter blocks.

Code	Description	Price
XHE010500	Immersion Heater 12V	£18.21



IDEAL FOR PUPIL BASED INVESTIGATIONS

Joule & Watt Meter

Capable of making direct measurement of electrical energy or power supplied to a load and is therefore a valuable tool for pupil based work as well as simplifying many demonstrations. The direct readings mean that the need for voltmeters, ammeters, stop watches and calculators is eliminated and fast and accurate results can be obtained. The science understanding can therefore be gained from scientific investigations rather than mathematical manipulation, making it ideal for pupil based investigations at GCSE, Standard Grade level and A-level in Science and Technology courses.

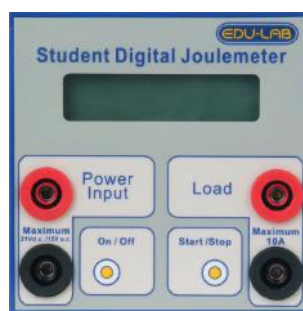
Code	Description	Price
XEC240010	Joule & Watt Meter	£248.65



Mains Joule & Watt Meter

The mains Joule & Watt Meter is accurate, light and compact. It is designed for class demonstration and also for student use. The meter measures the energy or power delivered to a mains appliance. Current transformers and sampling voltage transformer isolate the unit from the mains. Determines the energy consumed by domestic appliance.

Code	Description	Price
614-007	Mains Joule & Watt Meter	£299.11



Student Digital Joulemeter

The EduLab Student Joulemeter is designed specifically for student use. The unit can measure energy from 1 joule to 999,999 joules, with accuracy of 3%, but 1% accuracy is typical. Power is by means of a 9V DC mains adaptor included.

Code	Description	Price
605-014	Student Digital Joulemeter	£102.11



NEW

DC Power Energy Meter

The Power Energy Meter uses a large back lit display which displays four important parameters.

- The voltage across the load (V)
- The current flowing through the load (A)
- The power dissipated by the load (W)
- The amount of energy converted by the load (Wh)

A low voltage power pack that accepts input voltages in the range 6.5-100V d.c. The load (which may draw up to 20A) is connected to the load terminals.

Code	Description	Price
PEMSUB	DC Power Energy Meter	£52.49



Steam Generator Kettle

A 3 pint kettle with automatic cut-off, design may vary.

Code	Description	Price
XHE020010	Steam Generator Kettle	£17.21



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Thermal Conductivity Kit

A class kit of eight sets of eight different wires of rods each 250mm long for comparing the thermal conductivities of different materials.

Code	Description	Price
XHE060010	Thermal Conductivity Kit	£47.88



Bi-Metal Strip Kit

A class kit which consists of 10 bi-metal strips measuring 100 x 8 x 0.5mm securely attached to wooden supports, 50 x 35 x 12mm. Students can produce thermostats while revising simple circuit ideas in an excellent investigation. KS3/4. Set of 10 Strips.

Code	Description	Price
XHE100020	Bi-Metal Strip Kit	£30.08



Copper Calorimeter

Copper Calorimeter With parallel sides and rolled rim, without stirrer. 100 x 75mm dia.

Code	Description	Price
XHE160010N	Copper Calorimeter	£6.11



Calorimeter Insulation Jackets

Thick felt sleeves and a base mat to fit three sizes of calorimeter.

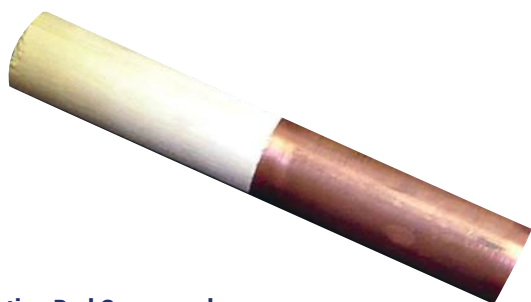
Code	Description	Price
XHE160530	50mm	£20.38
XHE160540	65mm	£23.53
XHE160545	75mm	£21.71



Stirrer for Calorimeters

Metal Wire Stirrers for Calorimeter Vessels-Spun vessels with rolled rims.

Code	Description	Price
XHE160601	Pack of 10 Calorimeter Stirrers	£10.08



Friction Rod Compound

Half ebonite half brass, length approx. 30cm, dia. 12 mm.

Code	Description	Price
XHE180010	Friction Rod Compound	£19.28

Convection Tube

To show the convection of heat in a liquid. Glass tube, 20mm external diameter shaped into a rectangle 380 x 300mm.

Code	Description	Price
XHE200010	Convection Tube	£13.28





BeeSpi V Light Gate

Measure speed and acceleration in an instant with the BeeSpi V. Unlike traditional tape-based velocity measuring experiments that are hard to set up and can be inaccurate, BeeSpi V uses advanced light gate technology to instantly measure the speed of an object.

Code	Description	Price
XLM200010	BeeSpi V Light Gate	£24.54
XLM200550	Holding Rod for BeeSpi V Light Gate	£18.73

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Millisecond Triple Timer

The established Lascells Millisecond Timer has been updated and improved to provide all the facilities required for dynamics timing. The display is now LCD and there are three modes of operation activated by START and STOP switch contacts (4mm sockets) or by using Lascells Light Gates which plug in directly, hence requiring no additional power supplies. Mode 1: Uses one light gate or a switch across the START sockets (either normally open or normally closed contacts).

Code	Description	Price
XLM170011	Millisecond Triple Timer	£196.41



Timer Light Gate

An infra-red beam, high speed light gate for use with Lascells timers. The attached cable is terminated by a 3.5mm jack plug which fits directly into the timer so that no other connections are required.

Code	Description	Price
XLM175010	Timer Light Gate	£43.70

Light Gate Adaptor 3.5mm Jack

This unit accepts the light gate (XLM175010) jack plug and brings out the four connections to 4mm sockets to facilitate connection in alternative applications.

Code	Description	Price
XLM175020	Light Gate Adapter	£25.62



EASY TO USE

Millisecond Timer

The Simple Timer is a fully functional, easy to use millisecond timer and has a clear, 4 digit LED display. Three sockets provide START and STOP inputs which respond to any change of switch settings i.e. normally closed to open or vice versa making triggering very simple and reliable. A single switch changes the timer from GATE 1 start and stop to GATE 1 start GATE 2 stop.

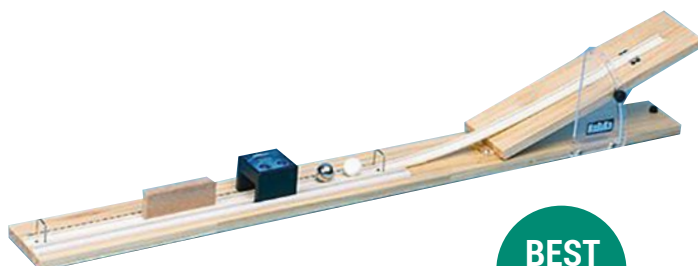
Code	Description	Price
XLM220010	Millisecond Timer	£72.49


BEST SELLER

Lascells 'G' by Freefall Apparatus

Use in conjunction with an accurate millisecond timer to calculate acceleration due to gravity.

Code	Description	Price
XMC455011	G by Freefall Apparatus	£55.16


BEST SELLER

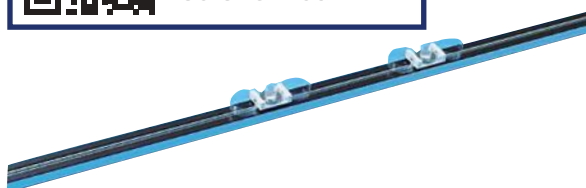
I - Gauge OS-KB

Designed for a collision experiment between a ball and a block for qualitative confirmation of the kinetic energy conservation law. Relationship between the potential energy and the kinetic energy is confirmed by because a moving distance of the block after collision with a ball is proportional to kinetic energy.

Code	Description	Price
XLM200520	I - Gauge OS-KB	£160.36



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Magnetic Levitation Track

New type dynamic apparatus replacing "Air track". World's 1st dynamics track of "easy & quiet operation" without electric power. Sufficient length (2m) of Magnetic Levitation Track makes you do the experiments easily of the law of conservation of momentum.

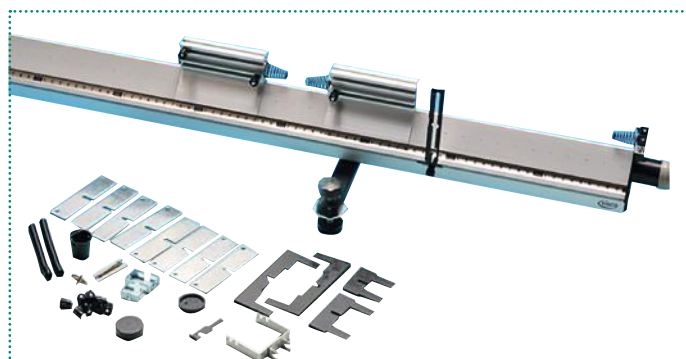
Code	Description	Price
XLM070010	Magnetic Levitation Track MF-B	£832.17



Air Blower for Air Track

Extremely quiet air blower with continuously adjustable speed. The Air Blower is designed especially for operation on the XLM 110 series of Air Tracks. Complete with 1.7m hose. Mains supply: 220-240V AC. Dimensions: 280 x 250 x 210mm Weight: 5.7kg.

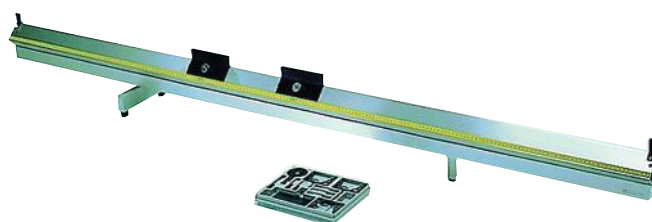
Code	Description	Price
XLM110600	Air Blower for Air Track	£405.29



Standard Linear Air Track

For checking smooth movement, smoothly accelerated movement, Newton's Second Law, elastic and inelastic collisions. The air track is made from a large square aluminium extrusion in conjunction with a supporting 'U' channel. A series of 7 screws allow adjustment of the air track to a typical linearity of 0.03mm.

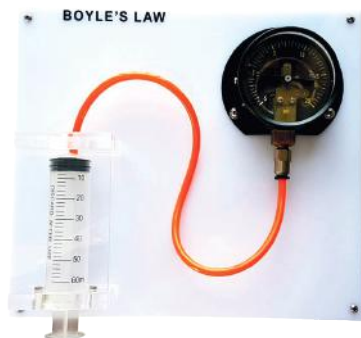
Code	Description	Price
XLM110010	Standard Linear Air Track	£553.87



Linear Air Track with Accessories

Cost-effective, virtually friction-free system. Our sturdy triangular aluminum extrusion track is lightweight yet durable and can be used without a support stand. 2 meters in length, it has a smooth surface and high linearity due to precision machining. Two rows of air holes are spaced 2.4 cm apart. Full length metric tape is placed on the track with a guide groove for spark paper. Air Blower not included.

Code	Description	Price
XLM180010	Linear Air Track with Accessories	£439.95



Boyle's Law Apparatus

This apparatus provides an excellent method of demonstrating Boyles Law. The unit is mounted on a sturdy Perspex board. The gauge and syringe are connected by a high pressure hose.

Code	Description	Price
251-401	Boyle's Law Apparatus	£120.86

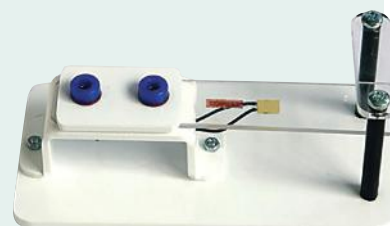
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Compact Ramp Kit

Dynamics on a small scale; ideal for bench top investigations with multiple groups. The kit contains 5 ramps, 5 stands, 5 blocks, 5 cars and a pack of 5 different surfaces. The ramps are 430 x 60mm and the ingenious stands give simple height adjustment from zero to 250mm in 10 steps.

Code	Description	Price
XDS200011	Compact Ramp Kit	£152.57
XDS200500	Ramp Surfaces (Pack of 5)	£25.81

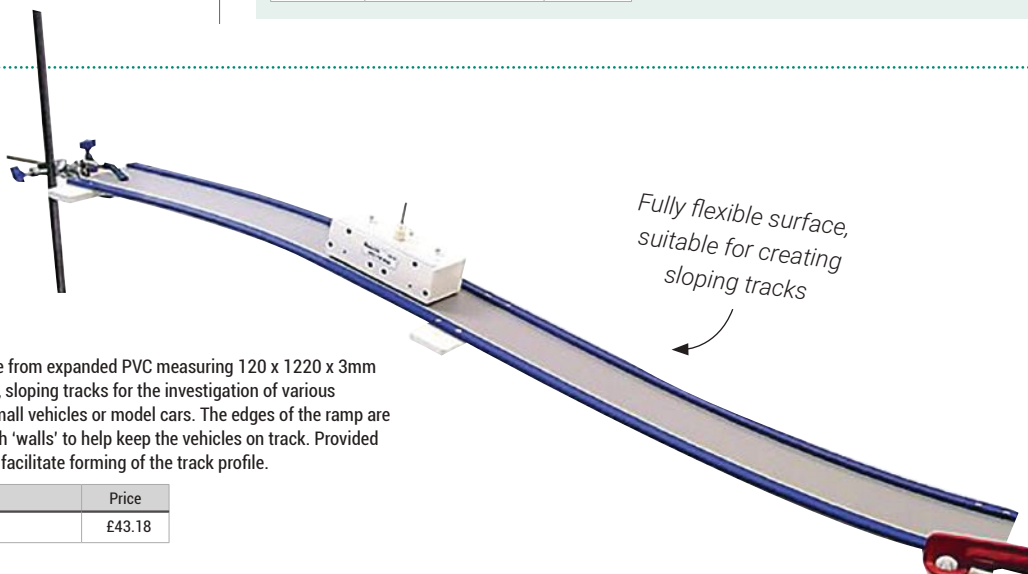


Flexi-Ramp

A fully flexible surface made from expanded PVC measuring 120 x 1220 x 3mm suitable for creating curved, sloping tracks for the investigation of various dynamics situations with small vehicles or model cars. The edges of the ramp are built up to provide 5mm high 'walls' to help keep the vehicles on track. Provided with three clamping bars to facilitate forming of the track profile.

Code	Description	Price
XDS080010	Flexi-Ramp	£43.18

*Fully flexible surface,
suitable for creating
sloping tracks*



SciChem Dynamics System

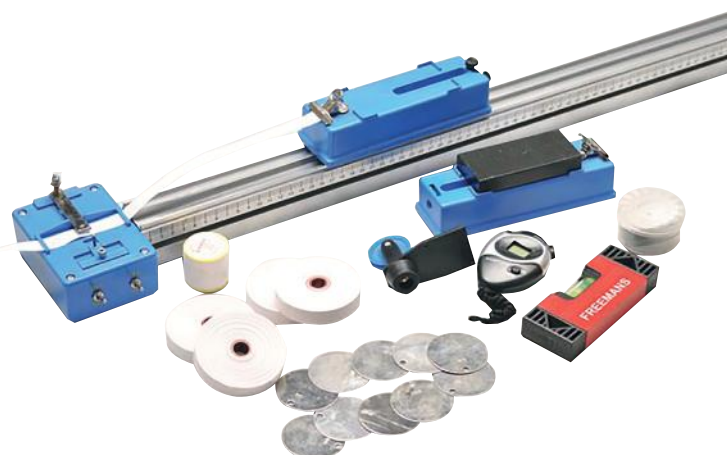
Allows investigations into experiments such as acceleration along an inclined plane, the effect of different accelerating forces on different masses, investigation of elastic and inelastic collisions between two trolleys, change of momentum between two trolleys, kinetic energy and many more.

The kits contains: 1.2m Track with pulley, Trolley Standard, Trolley Spring loaded, 2 x Masses, 10 x 10 g Masses, Ticker tape timer, 5 x Spare tapes, Pack of carbon discs, Reel of cotton, Spirit level and Stopwatch.

Code	Description	Price
XDS010012	SciChem Dynamics System	£105.25

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PASCO Bridge Set

Contains the materials needed to build larger trusses and bridges, as well as a flexible road bed and car for studying dynamic loading as the car traverses the bridge. Special cord locks allow tensioning of cord (cables) for cross-bracing. A flexible plastic road bed clips to the cross-beams and, using load cells, the tension and compression of each element can be displayed in real time.

Code	Description	Price
XDS040020	Bridge Set	£532.10

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Rotary Investigation

This simple but effective system makes a complicated topic into one of the most enjoyable lessons possible for all ages at secondary level. It allows students to easily investigate the forces of circular motion so that they get hands-on experience of the effects. A spring system is enclosed in an acrylic tube so that the student can whirl a rubber ball around in a horizontal circle to measure the centripetal force. Radius and mass are easily varied and rotational speed is simply measured by timing the revolutions.

Code	Description	Price
XDS100010	Rotary Investigation	£47.19

Large amount of components to build a variety of structures



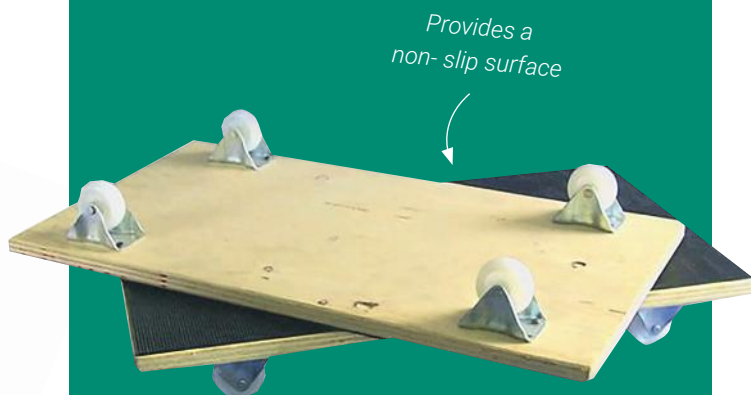
PASCO Advanced Structures Set

The Advanced Structures Set includes more components to build a larger variety of structures. Axles and pulleys allow construction of cranes, cars, and even a working catapult! The Advanced Structures Set includes flexible I-beams (to dramatically demonstrate failure), flat members (for cross bracing) and drive wheels with rubber tyres.

Code	Description	Price
XDS040030	Advanced Structures Set	£984.84



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Provides a non-slip surface

Action/Reaction Platforms

These trolleys are large enough for students to sit on to experience the effect of Newton's Third Law. The strong wooden platforms measure 600 × 340 × 18mm and are constructed from plywood with rubber tyre wheels at each corner. The surfaces are covered in matting to provide a non-slip surface. In use, the platforms are placed in line on the floor and two students sit on them, facing each other.

Code	Description	Price
XDS110010	Action/Reaction Platforms	£112.49



Ticker Tape Timer, 6V incl. Tape & Disc

These devices use an electromagnet which activates a striker, producing dots via a carbon disk on the ticker tape. The dots are produced at a rate of 50 - 60Hz depending on the mains frequency. With 4mm terminal sockets. The Ticker Tape Timers are used in the measurement of velocity, acceleration and general timing. There are 6V & 12V units available - please check your unit rating before connecting the unit to a PSU.

Code	Description	Price
EDU042	Ticker Tape Timer, Tape & Disc	£46.40



Designed to suit curriculum based experiments for the topics of Force & Motion

Dynamics Kit, Track & Accessories

Designed to suit curriculum based experiments for the topics of Force & Motion. The carefully designed and matched components provide an excellent medium for demonstrating these important principles. The unit comprises of: Aluminium Track, 1.2m; 2 high-impact moulded trolleys (1 spring loaded); 1 trolley weight; 10 x 10g masses; 1 x ticker tape timer; 20 x carbon discs.

Code	Description	Price
EDU043	Dynamics Kit, Track & Accessories	£120.86

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*Exceptional free
running*

Unsprung Hardwood Dynamics Trolley

Traditional hardwood trolleys on three double row ball bearing wheels for exceptional free running. Wheels are set back from main body of chassis to reduce the chance of collision damage and a flat top is provided to allow the trolleys to be stacked in order to double mass. A spring loaded pin version is also available for conservation of momentum and impulse studies etc. Dimensions: 260 x 100 x 60mm, excluding pin.

Code	Description	Price
XDS140521	Hardwood Dynamics Trolley	£53.98

**ROBUST &
VERSATILE**



Dynamics Tracks

Robust and versatile runways for use in all dynamics investigations with trolleys or model cars etc. The base board is 12mm MDF with hardwood side walls. Additional items available are a run-off ramp which allows vehicles to easily make the transition on to a flat floor and a height adjustable stand to vary the slope angle. The tracks are available in 4, 6 and 8 feet long versions.

Code	Description	Price
XDS140010	4ft Track	£42.52
XDS140020	6ft Track	£55.00
XDS140030	8ft Track	£68.19



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Hovercraft

A 115cm diameter MDF base is fitted with a tough vinyl underskirt, non-slip upper surface, sturdy support handles and PVC rim buffer to provide a hovercraft platform which can easily support a student or adult in a 'friction free' environment. The hovercraft can be powered by the High Powered Blower (XDS 170 050) or by a battery powered leaf-blower which has the advantage of no mains cable.

Code	Description	Price
XMC940020	Hovercraft	£241.25

Hovercraft Battery Leaf Blower

Magic Carpet Battery Leaf Blower. The Magic Carpet (Hovercraft) can be powered by a portable battery blower to give independence from the mains and more flexibility in applications. This unit comes complete with two rechargeable batteries and mains battery charger. It requires the Accessory Pack if the hose and adaptor from the High Powered Blower are not available. Run time is approximately 20 minutes per charge. Dimensions: 200 x 300 x 500mm approx Mass: 5kg incl. batteries and charger.

Code	Description	Price
XMC940500	Hovercraft Battery Leaf Blower	£287.16

Hovercraft Accessory Pack

This pack provides the hose and adaptor required to link the battery powered Leaf Blower (XMC 940 500) to the Magic Carpet Hovercraft. Dimensions: 3m x 40mm diameter. Mass: 1.2kg

Code	Description	Price
XMC940510	Hovercraft Accessory Pack	£27.08

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Levers Kit

Investigations into the principle of moments are amongst the most rewarding for KS3/KS4 students, but lack of care often gives inconclusive results. This apparatus solves the problem since the strong plywood beam (480 x 50 x 4mm) has locating holes for specially designed mass carriers suitable for standard 10g slotted masses and the fulcrum is above the C of G giving sensible balance conditions. When used with the aluminium cradle and pivot system students get very predictable results. Supplied with photocopiable worksheets and full instructions. The kit contains five complete sets with three carriers per set and 15 x 10g masses, all that's needed to for the kit to work. Dimensions: 480 x 50 x 4mm (beam).

Code	Description	Price
XMC180010	Levers Kit	£70.42



Pulley Bench Clamp

A light alloy 70mm diameter pulley held in metal bracket, with two clamping screws for bench and rod support respectively. Bracket may be clamped to a bench edge or similar 38mm thick support, screwed to flat surface, or held on 13mm diameter support rod.

Code	Description	Price
XMC220070	Pulley Bench Clamp	£16.18

Free Fall Tube

This apparatus comprises a 1m long, 50mm diameter acrylic tube which can be partially evacuated using a hand pump through the end stopper. Enclosed in the tube is a small balsa wood block and a plastic square. If the tube is inverted before evacuation the plastic falls faster than the block because of air resistance effects. After partial evacuation they both fall at the same rate. Often referred to as the Guinea and Feather experiment after Robert Boyle's investigation where the objects used were a guinea coin and a feather.

Code	Description	Price
XMC205010	Free Fall Tube	£71.27





Mirrored Raybox with Accessories

This comprehensive kit with light/ray box and 29 optical components is ideal for performing a large variety of reflection, refraction, and color mixing experiments. The light/ray box consists of a 12V, 24A halogen lamp producing convergent, divergent or parallel beams. One end contains an adjustable cylindrical convex lens (for parallel beam), and on the other end a triple aperture system for color mixing experiments (lateral aperture is provided with adjustable hinged mirror).

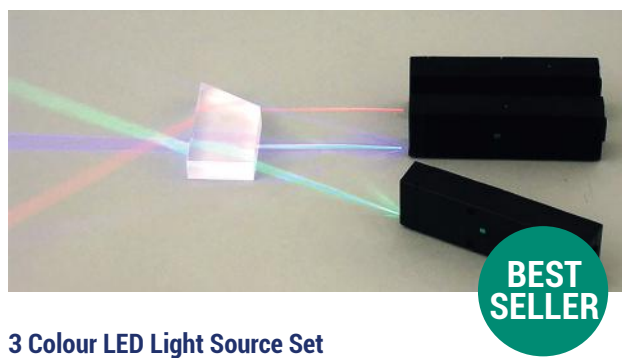
Code	Description	Price
ESR23	Mirrored Raybox with Accessories	£42.71



Lascells LED Ray Box

A classic ray box for ray tracing in optics experiments. The light source is a high intensity white LED which runs at low temperature. Ships with removable slit plate and lens to provide one or three parallel rays. The unit will operate at constant intensity from either a d.c. lab supply or plug top power adaptor in the range of 9 to 30V.

Code	Description	Price
OPT030011	Lascells LED Ray Box	£58.57



3 Colour LED Light Source Set

Three light source devices with super luminous red, blue, and green LEDs. Removable cover cap. Use all three colours to learn about the composition of light. Slim shape - align them together to perform experiments. The three separate colours allow you to experiment with the parallelism, diffusion, and convergence of light. Magnets on the bottom make whiteboard presentations easy. Dimensions: 120 x 35 x 20mm. Material: ABS. Light source: Super luminosity LED. Power source: 2x AA batteries required for each light source (included).

Code	Description	Price
XOP680010	3 Colour LED Light Source Set	£6.11



LED Ray Box

This Raybox is an upgrade to our OPT090010. It is equipped with a brighter LED and supplied with a mains adaptor. Comes with a slit.

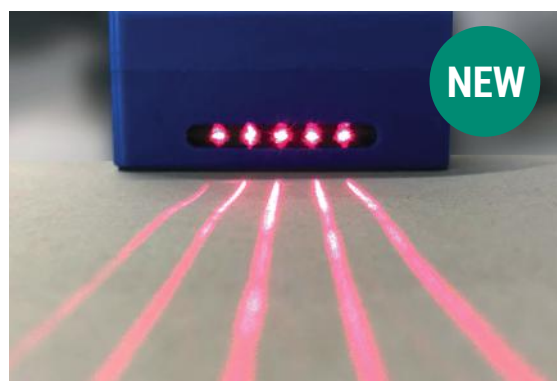
Code	Description	Price
OPT060011	LED Ray Box	£12.20



Metal LED Ray Box

An economical metal ray box comprises of a die cast enclosure, delivers white light but runs much cooler than conventional incandescent lamp models. It uses the latest cool ultra bright LED technology giving superior white light. Supplied complete with slit plate and its own battery power source.

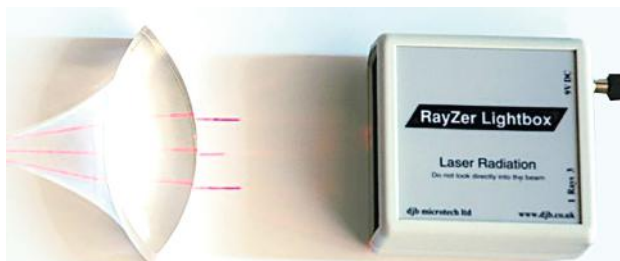
Code	Description	Price
OPT090010	Metal LED Ray Box	£12.14



Laser Ray Box

Our Laser Ray Box is bright enough to not require a darkened room. 3 or 5 beams are switched however, with use of the clip-on adaptor (supplied) the output may be easily converted to either 1 or 2 beams. Side by side, Class 2 lasers, giving parallel beams 1.6cm apart, 650nm wavelength. Will easily demonstrate the following when used with suitable optics.

Code	Description	Price
5LRBPSUB	Laser Ray Box	£49.95

**FOR THE STUDY
OF RAY OPTICS**

RayZer Lightbox

This unit is for studying ray optics. It contains 3 laser diode modules. The power of each diode is less than 1mW and the wavelength is 650nm. The Rayzer is supplied with a plugtop power supply and is mounted on a white plastic baseboard. The beams may be switched between one and three. Paper can be placed on top of the baseboard and the rays traced. The unit can be used with a 9V PP3 type battery and our battery connector.

Code	Description	Price
XOP610011	RayZer Lightbox	£110.35

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Spectrum Tube Power Supply

Specially designed box holds the tube firmly and prevents the student from touching the electrodes. A black panel behind the tube eliminates distracting ambient light and protects the tube from breakage. Operates on 220V A/C at 50Hz and is suitable for 26cm tubes.

Code	Description	Price
XOP998010	Spectrum Tube Power Supply	£167.36



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Spectrum Discharge Tubes

Use these tubes to show spectral lines of pure substances. These are glass tubes approximately 10.25" (260mm) long, central capillary portion approximately 3.5" (90mm) to 4" (100mm) long, with electrodes sealed at both ends and connected to lead wires protected by metal caps. The tubes offer an exciting illustration of spectral lines. The tube needs an induction coil 2" (50mm) spark, or a suitable transformer. These cannot be used as lamps.

Code	Description	Price
XOP998510	Argon Gas	£22.50
XOP998530	Helium	£15.25
XOP998540	Hydrogen	£23.94
XOP998570	Mercury Gas	£23.94
XOP998580	Neon Gas	£13.89
XOP998590	Nitrogen Gas	£23.94
XOP998600	Oxygen	£22.50

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For refraction
experiments.



Rectangular Glass Block

For refraction experiments. Polished on all sides with slightly bevelled edges and free from bubbles. Dimensions: 115 x 65 x 18mm.

Code	Description	Price
XOP030010	Rectangular Glass Block	£7.17



Wooden Lens Holder

Mounted on a base with a slot to accommodate lenses up to 76mm diameter.

Code	Description	Price
XOP060500	Wooden Lens Holder	£2.88

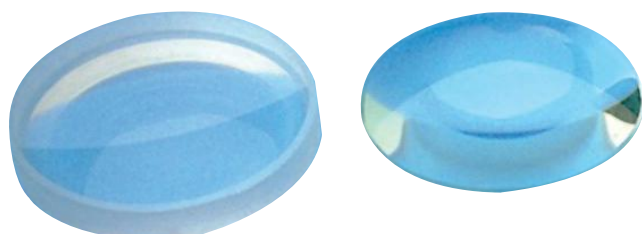


Adjustable Wooden Lens Holder

Wooden Lens Holder, Adjustable-Can hold lenses up to 75mm diameter.

Code	Description	Price
XOP060510	Adjustable Wooden Lens Holder	£4.21

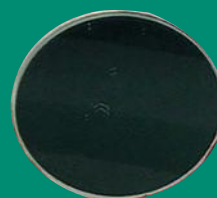
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Glass Biconvex Lenses

Glass Biconvex Lenses - 38-50mm Diameter, 100-150mm Focal Length available.

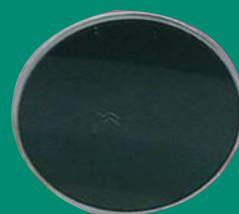
Code	Description	Price
XOP070020	50mm Diameter, 100mm Focal Length	£1.71
XOP070040	50mm Diameter, 150mm Focal Length	£1.49
XOP070090	38mm Diameter, 100mm Focal Length	£1.07



Concave Glass Mirrors

Optically worked, unmounted, silver backed with protective coating. 50mm diameter.

Code	Description	Price
XOP090010	50mm Diameter, 100mm Focal Length	£1.43
XOP090020	50mm Diameter, 200mm Focal Length	£1.50



Convex Glass Mirrors

This non-optically worked glass equilateral prism has slightly beveled edges and 60x60x60 degree angles. Its sides are 1.96" each or 50mm.

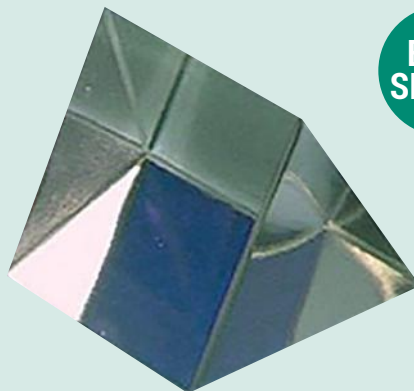
Code	Description	Price
XOP100010	50mm Diameter, 100mm Focal Length	£1.88
XOP100020	50mm Diameter, 200mm Focal Length	£1.45



Right Angled Glass Prism

The glass rectangular block is ideal for studying the properties of light (optics) in a kinesthetically and visually effective manner. 3 Sides: 2in, 2in, and 2.75in.

Code	Description	Price
XOP130020	Right Angled Glass Prism	£4.00



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Glass Equilateral Prism

This non-optically worked glass equilateral prism has slightly beveled edges and 60x60x60 degree angles. Its sides are 1.96" each or 50mm.

Code	Description	Price
XOP120020	Glass Equilateral Prism	£5.53



For students tackling the theory of Young's double-slit experiments

Young's slits, 1mm separation

For students tackling the theory of Young's double-slit experiments. Slide Carrier A simple acrylic carrier to hold standard slides 50 x 50 x 2mm such as Young's slits.

Code	Description	Price
XOP670010	Young's Slits	£15.76

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SPECTROMETERS



Pasco Spectrometer

Measures intensity, absorbance, and transmittance across the visible spectrum. Includes fluorescent excitation at 405nm and 500nm. Includes: 10x Cuvettes, 1x Spectrometry Software.

Code	Description	Price
SPE500010	Spectrometer	£767.35



PASCO UV-VIS Spectrometer

Highly accurate spectrometer with broad range, ultraviolet through visible light illumination for detailed spectroscopic techniques in chemical structure and concentration determination. Includes:

- ✓ 1x Semi-Microvolume Cuvettes (Qty. 10)
- ✓ 1x Cuvette Rack
- ✓ 1x USB-A to USB-B Cable
- ✓ 1x External AC Adapter, 24 V Power Supply
- ✓ 1x Foam Lined Carrying Case (ABS)

Code	Description	Price
SE-3607	UV-VIS Spectrometer	£3590.58



Mini Max 12V 2A Power Supply

Cost effective entry level 12V DC power supplies for low current applications. 2A suitable for many applications where higher current is required. 4mm sockets, so no lost terminals. Switched DC voltages. Short circuit protected. Smoothed ensuring clean output with ripple of only 50mV. Regulated meaning no drop in voltage under load. Dimensions: 140mm x 115mm x 60mm. 6 units fit in a shallow Grattells tray.

Code	Description	Price
MMP2	Mini Max 12V 2A Power Supply	£39.95



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NEW

Mini Max 12V 3.5A Power Supply

Cost effective entry level 12V DC power supplies for low current applications. 2A suitable for many applications. 4mm sockets, so no lost terminals. Switched DC voltages. Short circuit protected. Smoothed ensuring clean output with ripple of only 50mV. Dimensions: 140mm x 115mm x 60mm. 6 units fit in a shallow Grattells tray.

Code	Description	Price
MMP3	Mini Max 12V 3.5A Power Supply	£37.95



Mini Max 12V 3.5A Variable Power Supply

Cost effective entry level 12V DC power supplies for low current applications. 3.5A suitable for many applications where higher current is required. 4mm sockets, so no lost terminals. Continuously variable range: 0-12V DC. Short circuit protected. Smoothed ensuring clean output with ripple of only 50mV. Regulated meaning no drop in voltage under load. Dimensions: 140mm x 115mm x 60mm. 6 units fit in a shallow Grattells tray.

Code	Description	Price
MMP3V	Mini Max 12V 3.5A Variable Power Supply	£49.95



Continuously
variable range



EduLab 0-25V Stepped Power Supply

A popular, advanced, continuously-variable power supply unit with LED digital display, the Edu Lab College Power Supply Unit is ideal for demonstration purposes and for use by students in advanced level courses.

Code	Description	Price
605-013	0-25V Variable Power Supply	£305.10



EduLab 0-15V Stepped Power Supply

The EduLab 0-15V power supply has proved to be extremely popular and the ideal choice for physicists worldwide. It is simply the most advanced power pack available today and with the 5 year warranty it's a safe investment.

Code	Description	Price
605-055	0-15V Stepped Power Supply	£155.66

AC/DC Switched Power Supply

A traditional switched power supply which uses established PSU technology to provide a smoothed power supply suitable for all laboratory applications which require a rugged source of emf at either AC or DC. An internal mechanism disconnects the output when the voltage setting is changed ensuring that the switch contacts are protected from overload and the unit can be locked at any setting by means of an allen screw located on the front panel.

Code	Description	Price
RVN020030	AC/DC Switched Power Supply	£152.54

Revolution Variable Power Supply

Now refreshed and updated but still offering the same precision full specification power supply for the school laboratory with unrivalled advantages in terms of design and electrical specification.

Code	Description	Price
RVN020010	Variable Power Supply	£235.95



School Power Station

Our most popular School Power supply range have been updated and are now packed full of even more great features whilst still retaining everything that made them the most popular power supplies for Schools and Lab settings. The Power Supplies have been given a new modern slim casing to help improve storage when not in use as well as a new coloured case to help you identify the correct one. Both are fully compliant with all relevant CE certification.

Code	Description	Price
XPU260006	School Power Station, 1.5A	£39.75
XPU260011	School Power Station, 3A	£54.95



Remote control to select required voltage

Max Series Wireless 12V Power Supply

A unique concept to ensure the voltage required for the experiment stays where it is needed. There is just a power button, no other controls. This unit has a remote control to select the desired voltage. A single remote can control a class set of power supplies.

Code	Description	Price
MS5SW	Max Series Wireless 12V	£170.88

Revolution Switched Power Supply

Now refreshed and updated but still offering the same precision full specification power supply for the school laboratory with unrivalled advantages in terms of design and electrical specification. Up to 8A DC, switched or variable but, most importantly, constant, regulated DC voltage regardless of load.



Code	Description	Price
RVN020020	Switched Power Supply	£237.85



Max Series 12V AC/DC 5A Power Pack

The entry level Max Series power supply providing both AC & DC up to 5 amps via stepped switch from 2-12 Volts.

Code	Description	Price
MS5SL	Max Series 15V DC 8A Variable	£139.98



Max Series 15V DC 8A Variable Power Pack

A continuously variable regulated and smoothed unit up to 16V and 8amps, this is ideal where precise voltage is required. As it is a MAX Series, voltage can always be limited.

Code	Description	Price
MS8VR	Max Series 15V DC 8A Variable	£164.70



Electromagnetic Power Supply

Low Voltage, high current power supply for uses with Westminster electromagnetic kits, Fleming's apparatus, etc. 1-0-1V nominal a.c.

Allows students access to 1V a.c or 2V d.c. Output is furnished by rectification of 2V a.c (unsmoothed). Short-circuit current is 10A. Tolerates short circuit. Transformer is protected by thermal fuses and slow-blow fuse. 40A Shottky barrier diode for robust and efficient rectification.

Code	Description	Price
605-008	Electromagnetic Power Supply	£120.86

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EHT Power Supply

The adjustable 5KV output is fully isolated and the output is monitored by a digital display. Output current is electronically limited to 2mA and the outputs are also current limited by 100K resistors to avoid larger transient currents.

Code	Description	Price
605-006	Electromagnetic Power Supply	£372.33



High Tension Power Supply

High Tension Power Supply- For use with some Teltron tubes, valves and capacitor experiments. Two independent outputs of 0 - 30V and 0 - 300V DC at currents up to 60mA. Each output continuously variable. Separate 6.3V AC output for filament heaters. Output overload protected. Voltages of 0 to 30V and 0 to 300V DC at up to 60mA. Outputs are fully floating to provide negative voltages if required and are taken from pairs of colour coded 4mm sockets on the front panel. Each output has a continuously variable voltage control, with electronic current limiting circuitry.

Code	Description	Price
XPU050010	High Tension Power Supply	£217.56

*100 - 5000V DC
output at currents
up to 3mA*



5kV EHT Power Supply

5kV EHT Power Supply- For use with Teltron tubes, electrostatics apparatus, electric field experiments and spark detector. 100 - 5000V DC output at currents up to 3mA. Separate 6.3V AC output for filament heaters. Output overload protected. Separate earthing terminal. Continuously variable output from 100V to 5kV. Output voltage is indicated on a 14mm 2 digit LED display. The EHT circuits are fully floating so that for certain applications the positive or negative terminal may be safely connected to earth. Supplied with instructions and detachable mains lead.

Code	Description	Price
XPU080010	5kV EHT Power Supply	£423.11



Mini Max Radiation Test Source

This standard radiation test source allows science departments to perform their own GM tube, scaler-timer, ratemeter and Geiger-counter efficiency testing by measuring comparative beta efficiency. The test source consists of a transparent acrylic slide with a 13mm diameter disc containing 300mg of potassium chloride, which is a naturally occurring radioactive compound due to the presence of 0.0117% of Potassium-40 (K-40). Due to the extremely low activity of potassium compounds, the test source is not classed as a radioactive source, and does not need to be labelled or treated as such.

Code	Description	Price
MMTSB	5kV EHT Power Supply	£45.22



Sealed Radioactive Source (subject to surcharge)

The active material is enclosed in metal foil fixed in a cylindrical mount provided with a stem of 4mm diameter. The foil is further protected from accidental damage by a wire gauze cap over the open window of the mount. The nature and strength of each source is clearly engraved on its mount and it is also colour coded for identification. Each is supplied in a small lead castle in a suitably labelled MDF storage box 100 x 75 x 65mm high. A data sheet is enclosed with each. Please note: customers must have a valid licence and storage facility to purchase this product.

Code	Description	Price
261-025	Strontium	£1175.95
261-026	Cobalt	£1175.95
261-027	Americium	£1175.95

Expert Advice

Our experts are always happy to help, call on: **01902 402 402**

GM Tube and Holder

The GM Tube contained within this stand-alone holder is the industry standard type: ZP1481, as recommended in the Cleapss document GL:138 (Choosing a Geiger Muller Tube). The ZP1481 has a large area detection window making it suitable for all practical demonstrations and investigations as well as having an efficiency level suitable for detecting alpha, beta and gamma radiation, it is also robust and has a long life. The holder containing the GM Tube not only provides both protection and a choice of connections to the Tube but also the option to attach the holder to a retort stand using the supplied fixing rod.

Code	Description	Price
XWV111020	GM Tube and Holder	£537.50



BEST SELLER

NEW



Max Series Scaler Timer

A versatile unit that functions as a frequency meter, a timer, and a scaler/ratemeter. Six bright 14mm LED digits make it suitable for individual use or class demonstrations. As a millisecond timer it can respond to both rising and falling edge signals for use in timing air track experiments etc using 2 pairs of 4mm inputs. Alternatively a pair of purpose designed light gates are available separately.

Code	Description	Price
MSTSF500	Max Series Scaler Timer	£299.95



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Brings the phenomenon of radioactive decay into the classroom

Protactinium Generator

The Protactinium Generator brings the phenomenon of radioactive decay into the classroom. With a half life of the order of a minute, students have the opportunity to record a complete decay curve in a single lesson. An ideal opportunity to use a datalogger with a radioactive count rate sensor to record the activity, and compare it to a predicted decay curve. Protactinium234 has a half life of about 70 seconds, and is ideal for the observation of radioactive decay.

Code	Description	Price
XAR230010	Protactinium Generator	£375.80



On rubber feet to prevent slipping.

Universal Stand for Teltron Tubes

Tube holder made of robust plastic for holding D-series electron tubes. Stand has a wishbone, 360° rotating clamp made of heat-resistant plastic and two base holes for affixing the Teltron Helmholtz Coils D (U191051). On rubber feet to prevent slipping.

✓ Dimensions: approx. 230x175x320mm³

✓ Weight: approx. 1.5kg

Code	Description	Price
XAR060010	Tube Holder	£333.45



Helmholtz Coils

These magnetising coils, supplied in pairs, when mounted on the universal stand, automatically provide a Helmholtz configuration, where the coil radius is equal to the coil separation. Each coil has 320 turns of 22 swg enamelled copper wire wound on a plastics former of 136mm mean diameter. The terminations are 4mm sockets and 'Start' and 'Finish' is indicated.

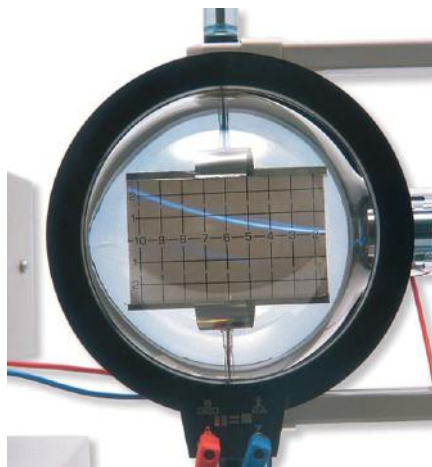
Code	Description	Price
261-010	Helmholtz Coils D	£383.15



Maltese Cross Tube

High-vacuum electron tube with divergent electron gun aimed at a fluorescent screen partially obscured by a Maltese cross. For demonstrating the linear propagation of electrons in the absence of applied electromagnetic fields by projecting the shadow of a Maltese cross onto the fluorescent screen. Application of a magnetic field using the Helmholtz Coils S allows for students to study the fundamental science of electron optics, such as beam focusing.

Code	Description	Price
XAR060520	Maltese Cross Tube D	£609.95

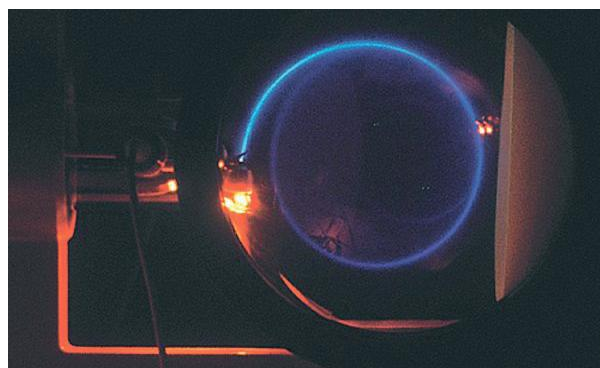


NEW

Deflection Tube

The electron-beam deflection tube is intended for investigating the deflection of electron beams in electrical and magnetic fields. It can be used to estimate the specific charge of an electron e/m and to determine the electron velocity.

Code	Description	Price
XAR060540	Deflection Tube D	£1265.95



Double Beam Tube, Gas-Filled

Part evacuated electron tube, filled with neon at low pressure, with tangential and axial electron gun. For determining specific charge e/m from the diameter of the filament beam in the case of tangential bombardment and a perpendicularly aligned magnetic field, and observing spiral paths of electrons in the case of axial bombardment and a co-axial magnetic field.

Code	Description	Price
XAR060560	Dual Beam Tube D	£1420.95

Electron Diffraction Tube

Highly evacuated electron tube for demonstrating the wave nature of electrons through the observation of interference caused by passage of electrons through a polycrystalline graphite lattice (Debye-Scherrer diffraction) and rendered visible a fluorescent screen.

Code	Description	Price
XAR060550	Electron Diffraction Tube D	£1035.95



Perrin Tube

Highly evacuated electron tube with focusing electron gun and fluorescent screen inclined relative to the beam axis so that the path of the beam can be seen and the effects of electric and magnetic fields can be studied.

Code	Description	Price
XAR060530	Perrin Tube D	£671.80

Digital Signal Generator

A truly exciting way to show the effect of sound waves in action, the Ruben's Tube really brings the topic to life in a way students will never forget. The robust stainless steel welded construction means trouble-free operation for many many years. The unit is shipped with full instructions and safety guidance and is the perfect companion to the Digital Signal Generator. Dimensions: 1000 x 100 x 90mm Mass: 2.4kg Requires a supply of bench or bottled gas and Ruben's Tube Amplifier. This is a small amplifier that attaches directly to the Lascells Ruben's Tube. It comes complete with 9V power supply and 3.5mm connection cable. It allows music from MP3 players, iPods and computers to be played adding an extra twist to Ruben's Tube demonstrations.

Code	Description	Price
XWV680010	Digital Signal Generator	£294.49

**BEST
SELLER**

*A truly exciting way
to show the effect of
sound waves in action*



**PROVIDES SINE
SQUARE OR
TRIANGULAR WAVEFORMS**



Signal Generator & Amplifier

Provides sine, square or triangular waveforms. Frequency selection is by a switched range and continuously variable fine adjustment control. The frequency is displayed on an LED display. Both the low and high impedance outputs are fully protected and will withstand a continuous short circuit without damage. All connections are via pairs of labelled 4mm sockets with one of each pair connected to earth.

Code	Description	Price
XWV080010	Signal Generator & Amplifier	£369.95

Signal Generator And Amplifier – Edulab

The Signal generator is a robust instrument and can withstand prolonged short circuit for the output. The earth provided is connected to the physical earth through the power cord; the signal generator output is floating with respect to ground. Do not open the unit as this will make your warranty void.

- ✓ Power supply unit with detachable power lead for easy storage
- ✓ Detailed instruction manual

Code	Description	Price
241-022	Signal Generator And Amplifier	£310.07

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*Robust instrument and can withstand
prolonged short circuit for the output*





Compact Ripple Tank

Self contained. Easy set up. Saves time. This compact unit provides an elegant method of demonstrating the wave phenomena of reflection, diffraction, refraction and interference with none of the setting-up problems usually associated with ripple tanks. The concept has been further developed to offer new features and simplicity in this design. The unit is completely self-contained with the translucent viewing screen hinging away to reveal a 12cm water tank.

Code	Description	Price
XWV590012	Compact Ripple Tank	£146.98



Ripple Tank System

Integrated strobe/ripple generator simplifies operation. Foam beach design dramatically reduces reflections from walls. Silent operation the PASCO ripple tank system is easy to use, reliable and affordable. The strobe and rippler are controlled by the same unit, and a new feature makes it possible to introduce a small frequency difference between the strobe and the rippler to make the waves appear to move slowly.

Code	Description	Price
XWV100020	Compact Ripple Tank	£1516.94

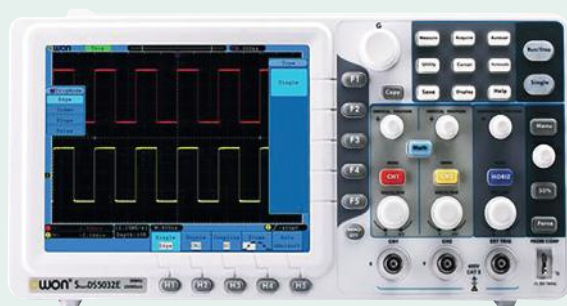
Vibration Generator

This electromagnetic vibrator for the production of mechanical oscillations is the original model, developed by Frederiksen and produced in Denmark. The original model, which is built with a quality coil and precisely mounted center handlebars, achieves a significantly larger amplitude and a somewhat larger frequency range, compared to what similar products can perform.



Code	Description	Price
XWV320010	Vibration Generator	£137.70

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Digital Storage Oscilloscope with VGA Port

Owon SDS5032E-V Oscilloscope-The Owon SDS5032E-V is a 30 MHz, two-channel digital oscilloscope.

Code	Description	Price
EMS090011	Digital Storage Oscilloscope with VGA Port	£305.96

Receive a
FREE GIFT
when you
place a
qualifying
order...
(just like this
coffee mug)

Subject to availability.
See website for details.



Ruben's Tube

A truly exciting way to show the effect of sound waves in action, the Ruben's Tube really brings the topic to life in a way students will never forget. The robust stainless steel welded construction means trouble-free operation for many many years. The unit is shipped with full instructions and safety guidance and is the perfect companion to the Digital Signal Generator. Dimensions: 1000 x 100 x 90mm Mass: 2.4kg Requires a supply of bench or bottled gas. Ruben's Tube Amplifier. This is a small amplifier that attaches directly to the Lascells Ruben's Tube. It comes complete with 9V power supply and 3.5mm connection cable. It allows music from MP3 players, iPods and computers to be played adding an extra twist to Ruben's Tube demonstrations.

Code	Description	Price
XWV830010	Ruben's Tube	£198.86

**THE ROBUST STAINLESS STEEL
WELDED CONSTRUCTION MEANS
MEANS TROUBLE-FREE OPERATION
FOR MANY, MANY YEARS**



Ruben's Tube Amplifier

This is a small amplifier that attaches directly to the Lascells Ruben's Tube. It comes complete with 9V power supply and 3.5mm connection cable. It allows music from MP3 players, iPods and computers to be played adding an extra twist to Ruben's Tube demonstrations.

Code	Description	Price
XWV830500	Ruben's Tube Amplifier	£48.53



No external apparatus required or complicated setting up

3cm Microwave Apparatus

Complete Set- All self-contained; no external apparatus required or complicated setting up. This complete system provides a rugged set of units to enable students to investigate the wave properties of 10GHz (3cm) microwaves. Directional Horn Transmitter- This utilises a Schottky diode oscillator module feeding a tuned waveguide and horn to give a directional microwave beam. The beam is modulated with a variable frequency audio signal which can be adjusted by the control on the top panel.

Code	Description	Price
XWV660041	3cm Microwave Apparatus	£586.59



Speed of Sound Apparatus

Simple to use. Direct measurement. Reliable Data. This is an easy to use piece of apparatus for determining the speed of sound in air by simply measuring the time taken for sound to travel a known distance. The unit contains two sensitive microphones connected by a long cable to control circuitry that will start and stop a Lascells Millisecond or Microsecond timer. In use a sharp sound is produced and the time taken to travel the distance between the two microphones is recorded on the timer (not included).

Code	Description	Price
XWV120010	Speed of Sound Apparatus	£83.76



Bell in Acrylic Bell Jar

Demonstrate that sound requires air to travel through with the Bell in Vacuum Jar set. Slowly decrease the air inside and hear the sound disappear. Electric bell operates on 4-6V DC.

- ✓ Acrylic bell jar
- ✓ Electric bell operating on 4-6V DC
- ✓ Requires a vacuum pump (not included)

Code	Description	Price
241-507	Bell in an Acrylic Bell Jar	£67.15



Student Bell Jar

This bell jar provides a vacuum chamber for students to perform many experiments including: Watching a balloon expand or warm water boiling as air is pumped from the chamber. Observing that a suction cup no longer sticks when the jar is evacuated.

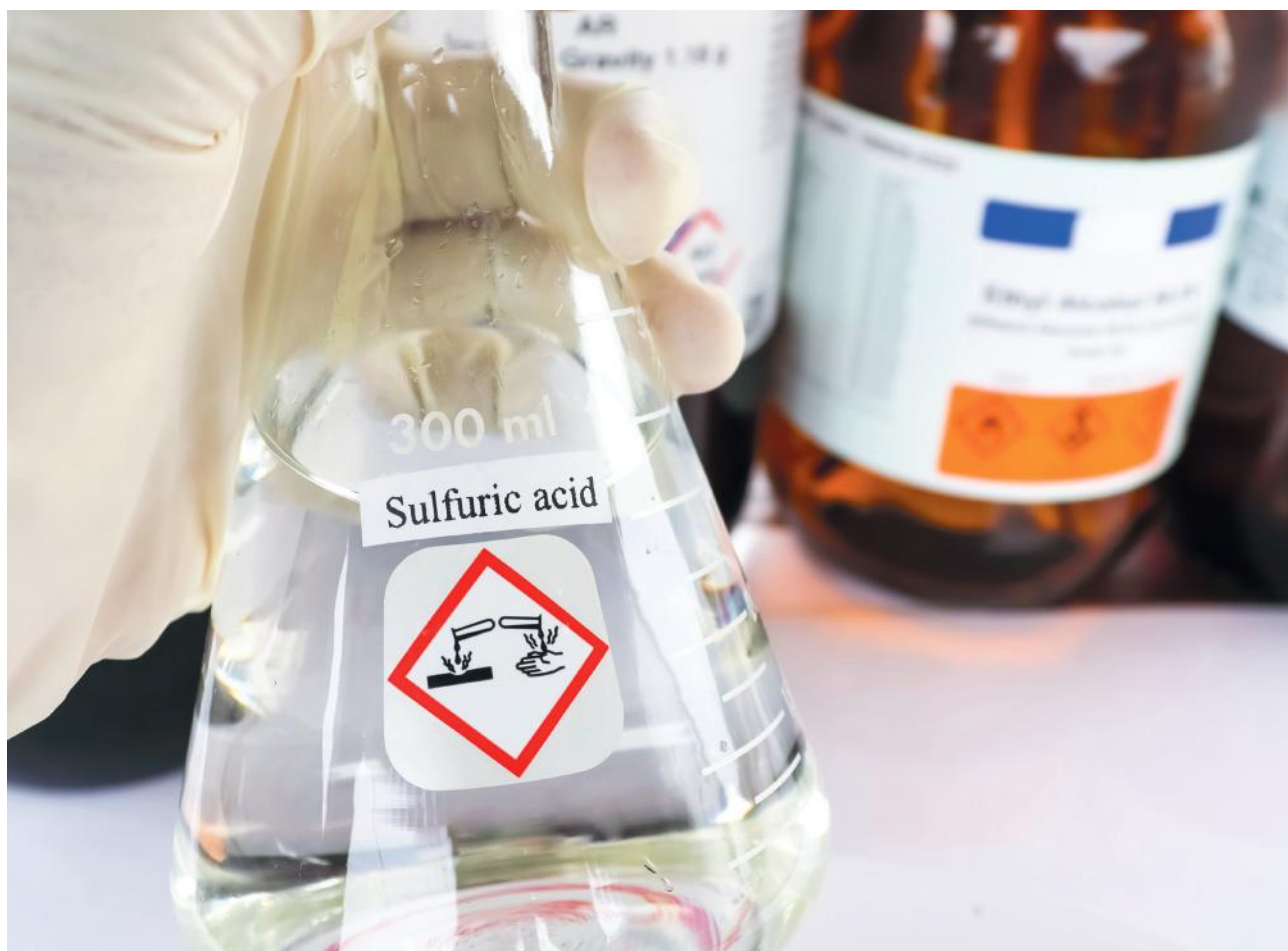
What's Included:

- ✓ 1x 8cm x 6cm dia. clear plastic bell jar with base
- ✓ 1x Plastic vial, balloons and suction cup
- ✓ 1x 60cc syringe and valves for evacuating the jar

Code	Description	Price
SE-9790	Student Bell Jar	£60.19



CHEMICALS





Our Quick Guide to Science Chemicals

The use of chemicals is a vital part of the science curriculum within schools and must be stored, used and disposed of safely in accordance with government health and safety guidelines.

SciChem is well equipped to provide help and advice on all aspects surrounding the use of chemicals and the necessary storage solutions available.

SciChem also provides a Chemical Waste Disposal Service that can take care of the necessary requirements. Further details can be found on page 8.

ORDERING/STOCK ADVICE

- Always ensure that the correct amount is ordered
- Rotate existing stock in-line with shelf-life dates
- Be mindful of substances that decay over time

HANDLING AND USE

- Read the label before opening the container
- Check that the chemical is the one required
- Consider the hazards including violent reactions between chemicals and use appropriate protective clothing and equipment
- Open container carefully in well ventilated area
- Take care while extracting and using hazardous chemicals and use methods which reduce the risk of inhalation, ingestion and contact with skin, eyes and clothing
- Avoid using contaminated apparatus and instruments
- Seal container tightly after use
- Do not eat, drink or smoke while handling and using chemicals
- Wash hands/exposed areas regularly, and change contaminated clothing
- Deal with spillages using precautions and methods appropriate to the hazards
- Seek medical attention immediately if affected by chemicals and use appropriate first aid until medical attention is available

STORAGE

- Store in dry well ventilated area, protected from extremes of temperature and sources of ignition
- Secure chemicals from unauthorized use
- Segregate stock to reduce hazards
- Inspect stock from time to time and dispose of deteriorated materials
- Do not smoke where flammable chemicals are stored
- Take care in handling containers with hazardous residues

HAZARD WARNING SYMBOLS



Explosive
GHS01



Flammable
GHS02



Oxidising
GHS03



Compressed Gas
GHS04



Skin Corrosion
GHS05



Acute Toxicity
GHS06



Skin Irritation
GHS07



Health Hazard
GHS08



Environment Hazard
GHS09

STORAGE



Find more cabinets on page 136



Periodic Table of the Elements

Periodic Table of the Elements showing atomic number, symbol, name, and atomic weight. The table is color-coded by groups and periods.

Legend:

- State of matter (color of name):** GAS (red), LIQUID (orange), SOLID (blue), UNKNOWN (green).
- Subcategory in the metal-metalloid-nonmetal trend (color of background):**
 - Alkaline metal (red)
 - Alkaline earth metal (orange)
 - Metalloid (yellow)
 - Polyatomic nonmetal (green)
 - Diatom nonmetal (light green)
 - Transition metal (blue)
 - Post-transition metal (light blue)
 - Noble gas (pink)
 - Unknown chemical properties (grey)

Elements:

1 **H** Hydrogen 1.008

2 **He** Helium 4.002602

3 **Li** Lithium 6.94

4 **Be** Beryllium 9.012182

5 **B** Boron 10.81

6 **C** Carbon 12.011

7 **N** Nitrogen 14.007

8 **O** Oxygen 15.999

9 **F** Fluorine 18.99840323

10 **Ne** Neon 20.1797

11 **Na** Sodium 22.98976928

12 **Mg** Magnesium 24.305

13 **Al** Aluminium 26.9815385

14 **Si** Silicon 28.085

15 **P** Phosphorus 30.973761998

16 **S** Sulfur 32.06

17 **Cl** Chlorine 35.45

18 **Ar** Argon 39.948

19 **K** Potassium 39.0983

20 **Ca** Calcium 40.078

21 **Sc** Scandium 44.955908

22 **Ti** Titanium 47.867

23 **V** Vanadium 50.9415

24 **Cr** Chromium 51.9961

25 **Mn** Manganese 54.938044

26 **Fe** Iron 55.845

27 **Co** Cobalt 58.933194

28 **Ni** Nickel 58.6934

29 **Cu** Copper 63.546

30 **Zn** Zinc 65.38

31 **Ga** Gallium 69.723

32 **Ge** Germanium 72.630

33 **As** Arsenic 74.921595

34 **Se** Selenium 78.96

35 **Br** Bromine 79.904

36 **Kr** Krypton 83.798

37 **Rb** Rubidium 85.4678

38 **Sr** Strontium 87.62

39 **Y** Yttrium 88.90584

40 **Zr** Zirconium 91.224

41 **Nb** Niobium 92.90637

42 **Mo** Molybdenum 95.95

43 **Tc** Technetium (98)

44 **Ru** Ruthenium 101.07

45 **Rh** Rhodium 102.90550

46 **Pd** Palladium 106.42

47 **Ag** Silver 107.8682

48 **Cd** Cadmium 112.414

49 **In** Indium 114.818

50 **Sn** Tin 118.710

51 **Sb** Antimony 121.757

52 **Te** Tellurium 127.60

53 **I** Iodine 126.90447

54 **Xe** Xenon 131.293

55 **Cs** Caesium 132.90545196

56 **Ba** Barium 137.327

57 - 71 Lanthanoids

72 **Hf** Hafnium 178.49

73 **Ta** Tantalum 180.94788

74 **W** Tungsten 183.84

75 **Re** Rhenium 186.207

76 **Os** Osmium 190.23

77 **Ir** Iridium 192.221

78 **Pt** Platinum 195.084

79 **Au** Gold 196.966569

80 **Hg** Mercury 200.592

81 **Tl** Thallium 204.38

82 **Pb** Lead 207.2

83 **Bi** Bismuth 208.98040

84 **Po** Polonium (209)

85 **At** Astatine (210)

86 **Rn** Radon (222)

87 **Fr** Francium (223)

88 **Ra** Radium (226)

89 - 103 Actinoids

104 **Rf** Rutherfordium (261)

105 **Db** Dubnium (268)

106 **Sg** Seaborgium (266)

107 **Bh** Bohrium (264)

108 **Hs** Hassium (277)

109 **Mt** Meitnerium (268)

110 **Ds** Darmstadtium (281)

111 **Rg** Roentgenium (282)

112 **Cn** Copernicium (285)

113 **Nh** Nihonium (286)

114 **Fl** Flerovium (289)

115 **Mc** Moscovium (288)

116 **Lv** Livermorium (293)

117 **Ts** Tennessine (294)

118 **Og** Oganesson (294)

57 **La** Lanthanum 138.90547

58 **Ce** Cerium 140.12

59 **Pr** Praseodymium 140.90766

60 **Nd** Neodymium 144.242

61 **Pm** Promethium (145)

62 **Sm** Samarium 150.36

63 **Eu** Europium 151.964

64 **Gd** Gadolinium 157.25

65 **Tb** Terbium 158.92535

66 **Dy** Dysprosium 162.500

67 **Ho** Holmium 164.93033

68 **Er** Erbium 167.259

69 **Tm** Thulium 168.93422

70 **Yb** Ytterbium 173.045

71 **Lu** Lutetium 174.967

89 **Ac** Actinium (227)

90 **Th** Thorium 232.0377

91 **Pa** Protactinium 231.0368

92 **U** Uranium 238.02891

93 **Np** Neptunium (237)

94 **Pu** Plutonium (244)

95 **Am** Americium (243)

96 **Cm** Curium (247)

97 **Bk** Berkelium (247)

98 **Cf** Californium (251)

99 **Es** Einsteinium (252)

100 **Fm** Fermium (257)

101 **Md** Mendelevium (258)

102 **No** Nobelium (259)

103 **Lr** Lawrencium (260)

A

Code	Description	Size	Price
AM190	a-Amylase (Bact.source) spec grade	50g	£22.27
AC030	Acetic Acid Glacial (Ethanoic Acid)	2.5Ltr	£16.46
AC052	Acetone (Propanone)	1Ltr	£10.07
AC056	Acetone (Propanone)	2.5Ltr	£19.73
AC050	Acetone (Propanone)	500ml	£5.50
8142/2.5	Acetone HPLC grade	2.5Ltr	£83.23
\$32201-2.5L	Acetone, Puriss. 99.5%	2.5Ltr	£14.00
9012/2.5	Acetonitrile HPLC Grade	2.5Ltr	£91.49
C6711-25	Acetonitrile HPLC Isocratic	2.5Ltr	£81.55
C2856-25	Acetonitrile HPLC Super Gradient	2.5Ltr	£93.47
MBM010110	Agar Nutrient	100g	£19.66
AG010	Agar Powder	100g	£14.67
AM018	Ammonia Solution 35%	1Ltr	£12.97
AM020	Ammonia Solution 35%	2.5Ltr	£21.93
AM042	Ammonium Chloride	500g	£6.78
AM095	Ammonium Iron (II) Sulfate	500g	£19.98
AM065	Ammonium Oxalate H2O Pure	100g	£14.15
AM165	Amylase(Fungal)	25g	£7.64
AN005	Anti bumping granules	250g	£6.38

B

Code	Description	Size	Price
CBL460020	Bacterial amylase	100ml	£39.95
BA020	Barium Hydroxide Octahydrate pure	500g	£17.72
BE025	Benedict's Soln (qualitative)	2.5Ltr	£12.56
BE020	Benedict's Soln (qualitative)	500ml	£5.77
BE080	Benedicts Solution Quantitative	500ml	£11.59
BI005	Bicarbonate Indicator	500ml	£4.33
BI025	Biuret Reagent	200ml	£4.95
BR127	Bromine Water 200ml	500ml	£11.97
BR045	2-Bromobutane	25ml	£10.40
BU5031	Buffer Soln pH 10 SCS	1Ltr	£8.06
BU5011	Buffer Soln pH 4 SCS	1Ltr	£8.06
BU5021	Buffer Soln pH 7 SCS	1Ltr	£8.06
BU005	Buffer Solution pH 2	1Ltr	£6.86
BU006	Buffer Solution pH 2	2.5Ltr	£11.86
BU015	Buffer solution pH 4	1Ltr	£7.30
BU016	Buffer solution pH 4 HDPE	2.5Ltr	£13.05
BU025	Buffer Solution pH 6	1Ltr	£6.30
BU041	Buffer Solution pH 9	2.5Ltr	£9.11
BU081	Butan-1-ol (n-Butyl Alcohol)	2.5Ltr	£28.40
BU098	Butanone (Methyl Ethyl Ketone)	2.5Ltr	£40.32



C

Code	Description	Size	Price
CA050	Calcium Carbonate Extra Pure 98%	1Kg	£7.55
CA055	Calcium Chloride Anhydrous Prills	500g	£3.92
CA165	Calcium Chloride Dihydrate	100g	£7.00
CA037	Calcium Coarse Granules	100g	£14.15
CI007	Citric Acid	500g	£8.33
HI-7031L	Conductivity soln 1413uS	500ml	£26.78
CO080	Copper (II) Carbonate Basic	500g	£10.63
CO090	Copper (II) Chloride-2-water	250g	£6.78
CO095	Copper (II) Nitrate-3-water	250g	£7.14
CO105	Copper (II) Oxide Black	250g	£10.18
CO110	Copper (II) Oxide Black	500g	£18.42
CO127	Copper (II) Sulfate-5-water	1Kg	£14.15
CO123	Copper (II) Sulfate-5-water	500g	£9.83
CO055	Copper Metal Foil 0.13mm	250g	£17.47
CO061	Copper Metal Turnings	500gm	£30.48
CY007	Cyclohexane Pure 1Ltr	1Ltr	£15.43
CY021	Cyclohexene 500ml	500ml	£18.06

D

Code	Description	Size	Price
GL022	d Glucose Monohydrate	500gm	£7.54
GL017	d(+)Glucose Anhydrous	500gm	£6.27
S0342	Di-Sodium Tetraborate Decahydrate 99%	1Kg	£50.95

E

Code	Description	Size	Price
AL010	Egg Albumine Powder	100g	£9.26
ET123	Ethanol (Ethyl Alcohol) 99.99%	1Ltr	£180.51
ET024	Ethanol (Ethyl Alcohol) 99.99%	2.5Ltr	£162.85
ET127	Ethanol (Ind Denatured Alcohol) 99% 740P	1Ltr	£7.95
ET130	Ethanol (Ind Denatured Alcohol) 99% 740P	2.5Ltr	£16.23
ET135	Ethanol (Ind Denatured Alcohol) 99% 740P	25Ltr	£89.60
ET125	Ethanol (Ind Denatured Alcohol) 99% 740P	500ml	£6.95
ET057	Ethyl Acetate Pure 1Ltr	1Ltr	£14.65

F

Code	Description	Size	Price
FE005	Fehling's Solution No.1	500ml	£3.42
FE015	Fehling's Solution No.2	500ml	£5.58
FO010	Formic Acid 85%	500ml	£8.04

H

Code	Description	Size	Price
HE065	Hex-1-ene	100ml	£27.54
\$34812/2.5	Hydranal Solvent CM	2.5Ltr	£242.00
VS042	Hydrochloric Acid 0.1M (0.1N)	5Ltr	£15.01
VS040	Hydrochloric Acid 0.1M (0.1N)	2.5Ltr	£15.30
VS035	Hydrochloric Acid 0.5M (0.5N)	2.5Ltr	£16.40
VS030	Hydrochloric Acid 1.0M (1N)	2.5Ltr	£19.58
VS032	Hydrochloric Acid 1.0M (1N)	5Ltr	£25.19
VS025	Hydrochloric Acid 2.0M (2N)	2.5Ltr	£21.62
6081/1	Hydrochloric Acid 36-38% AR	1Ltr	£25.31
6081/2.5	Hydrochloric Acid 36-38% AR HDPE	2.5Ltr	£42.97
VS015	Hydrochloric Acid 5.0M (5N)	2.5Ltr	£36.02
VS010	Hydrochloric Acid 5M(5N)	1Ltr	£12.73
\$35335-1L	Hydrochloric acid solution, Volumetric, 0.1M HCl (0.1N)	1Ltr	£21.58
HY014	Hydrochloric acid, Puriss 37%, APHA: 10	1Ltr	£10.79
HY016	Hydrochloric acid, Puriss 37%, APHA: 10	2.5Ltr	£13.02
HY046	Hydrogen Peroxide 100vol	2.5Ltr	£27.26
HY031	Hydrogen Peroxide 20vol	2.5Ltr	£21.81
HY040	Hydrogen peroxide solution, Perdrogen 30% H2O2	500ml	£15.55
HY043	Hydrogen peroxide solution, Perdrogen 30% H2O2	1Ltr	£13.34

I

Code	Description	Size	Price
VS045	Iodine Soln 0.05M (0.1N)	2.5Ltr	£30.42
IO015	Iodine solution (1% in Potassium Iodide)	500ml	£12.56
0126/500	Iron (II) Sulfate Heptahydrate AR	500g	£27.48
IR055	Iron (III) Nitrate-9-water	250g	£5.72
PR025	Iso-Propyl Alcohol 99.5% AR	500ml	£7.16

See page 8 for our Chemical Waste Service



L

Code	Description	Size	Price
LI005	Lime Water (Calcium Hydroxide Solution)	2.5Ltr	£10.45
LI011	Lipase	5g	£4.42
LI025	Lithium Chloride Anhydrous	100g	£21.05
LI015	Lithium Metal(in Paraffin liquid)	10g	£35.40

M

Code	Description	Size	Price
MA005/250	Magnesium (Metal) Powder Fine	250g	£21.50
MA030	Magnesium Chloride Hexahydrate 98% Extra	500g	£7.52
MA011	Magnesium Metal Ribbon	25g	£4.32
MA125	Manganese (IV) Oxide Powder	500g	£10.31
CA045	Marble Chips Large (9-12mm)	3Kg	£10.19
4879-DA-43	Marble Chips Medium (4-6mm)	1Kg	£3.59
CA043	Marble Chips Small (2-4mm)	3Kg	£10.75
ME066	Methanol (Methyl Alcohol)	2.5Ltr	£19.17
8402/2.5	Methanol HPLC Gradient grade	2.5Ltr	£56.07
9822.2500GL	Methanol LC-MS	2.5Ltr	£91.48
ME161	Methyl Orange Solution	500ml	£6.84
ME101	Methylated Spirit Blue Mineralised	2.5Ltr	£14.80
ME135	Methylene Blue Aqueous Staining Sol 1%	100ml	£3.57
ME130	Methylene Blue C.I.No.52015	5g	£3.20
ME141	Methylene Blue Solution 0.5% For Microsc	100ml	£2.28

N

Code	Description	Size	Price
BR040	N-Butyl Bromide (1-Bromobutane) Pure	100ml	£10.09
IO025	N-Butyl Iodide 99%	25ml	£18.10
9598/2.5	Nitric Acid 68-70%	2.5Ltr	£163.97
NI060	Nitric Acid LR 69%	2.5Ltr	£21.95
MBM010115	Nutrient Agar	100g	£16.90
MED220010	Nutrient Agar	500g	£57.86
MBM010125	Nutrient Broth	100g	£13.25



P

Code	Description	Size	Price
PH020	Phenolphthalein Soln	500ml	£11.47
P0038	Potassium Chloride	500g	£8.63
12636-6X1KG	Potassium chloride, Puriss 99-100.5% (AT) 0.0001% Al	6 x 1Kg	£128.00
P0057	Potassium Fluoride Anhydrous Pure	250g	£19.32
P0095	Potassium Hydroxide Pellets Extra Pure	500g	£20.52
P0105	Potassium Iodide Pure	100g	£20.28
P0110	Potassium Iodide Pure	250g	£41.14
P0115	Potassium Iodide Pure	500g	£56.60
P0004	Potassium Metal	10g	£17.86
P0130	Potassium Nitrate Extra Pure	500g	£7.65
P0121	Potassium Permanganate	500g	£11.55
PR033	Propan-2-ol (iso-Propyl Alcohol)	1Ltr	£10.05
PR034	Propan-2-ol (iso-Propyl Alcohol)	2.5Ltr	£24.72
PR038	Propan-2-ol (iso-Propyl Alcohol)	5Ltr	£25.30


R

Code	Description	Size	Price
RE012	Resazurin Tablets	Pack of 100	£35.78

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S

Code	Description	Size	Price
SA005	Sand Purified (Acid Washed)	1Kg	£10.36
SE015	Sebacoyl Chloride 5% in Cyclohexane	100ml	£9.31
SI005	Silica Gel Self Indicating(orange/green)	500g	£13.50
VS080	Silver Nitrate 0.1M (0.1N)	1Ltr	£33.94
VS085	Silver Nitrate 0.1M (0.1N)	2.5Ltr	£76.80
SI030	Silver Nitrate	10g	£22.75
SO381	Sodium Alginate	100g	£10.32
SO077	Sodium Carbonate Anhydrous	500g	£5.52
SO082	Sodium Carbonate Anhydrous	3Kg	£13.40
SO112	Sodium Chloride	5Kg	£13.00
SO187	Sodium Hydrogen Carbonate (Bicarbonate)	3Kg	£10.60
SO203	Sodium Hydroxide (Pearl)	1Kg	£9.33
VS095	Sodium Hydroxide 0.1M (0.1N)	5Ltr	£14.42
VS090	Sodium Hydroxide 1.0M (1.0N)	5Ltr	£17.33
VS087	Sodium Hydroxide 1.0M (1.0N)	1Ltr	£10.34
SO213	Sodium Hydroxide pellets A.R	1Kg	£33.78
SO215	Sodium Hypochlorite (10-14%Cl)	500ml	£6.70
SO230	Sodium Iodide	100g	£26.25
SO031	Sodium Metal in Liquid Paraffin	25g	£13.46
SO327	Sodium Sulfate Anhydrous	500g	£5.43
VS105	Sodium Thiosulfate 0.1M (0.1N)	5Ltr	£15.17
SO352	Sodium Thiosulfate-5-water	500g	£6.53
CHL020530	Solution Chloride Analyser Buffer	500ml	£44.65
ST016	Starch Soluble (ex potato)	500g	£5.03
SU005	Sucrose	1Kg	£8.60
VS120	Sulfuric Acid 1.0M (2.0N)	2.5Ltr	£8.60
SU046	Sulfuric acid, Puriss 95-97%	2.5Ltr	£18.53
\$T/19920.701	Sulphuric Acid 0.1N	1Ltr	£22.38

T

Code	Description	Size	Price
9360/4	Tetrachloroethylene Ultra Analytical Solvent	4Ltr	£157.30
ME115	Toluene, Puriss. 99.7%	2.5Ltr	£17.17

U

Code	Description	Size	Price
IN200	Universal Indicator pH1-14 & chart	500ml	£9.16
IN100	Universal Indicator soln pH4-11 & chart	500ml	£7.15

W

Code	Description	Size	Price
WA005	Water Deionized	5Ltr	£5.92
4218/2.5	Water HPLC Grade 1	2.5Ltr	£33.79

Y

Code	Description	Size	Price
YE015	Yeast Dried Active	25g	£6.00

Z

Code	Description	Size	Price
ZI070	Zinc Metal Granular	500g	£23.40
ZI080	Zinc Metal Powder	500g	£21.65
ZI055	Zinc Sulfate-7-water	500g	£6.92



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CODE	DESCRIPTION
PHYSICAL HAZARDS	
H200	Unstable explosive
H201	Explosive; mass explosion hazard
H202	Explosive; severe projection hazard
H203	Explosive; fire, blast or projection hazard
H204	Fire or projection hazard
H205	May mass explode in fire
H220	Extremely flammable gas
H221	Flammable gas
H222	Extremely flammable aerosol
H223	Flammable aerosol
H224	Extremely flammable liquid and vapour
H225	Highly Flammable liquid and vapour
H226	Flammable liquid and vapour
H228	Flammable solid
H240	Heating may cause an explosion
H241	Heating may cause a fire or explosion
H242	Heating may cause a fire
H250	Catches fire spontaneously if exposed to air
H251	Self-heating; may catch fire
H252	Self-heating in large quantities; may catch fire
H260	In contact with water releases flammable gases which may ignite spontaneously
H261	In contact with water releases flammable gases
H270	May cause or intensify fire; oxidizer
H271	May cause fire or explosion; strong oxidiser
H272	May intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H281	Contains refrigerated gas; may cause cryogenic burns or injury
HEALTH HAZARDS	
H290	May be corrosive to metals
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

CODE	DESCRIPTION
HEALTH HAZARDS (Cont.)	
H340	May cause genetic defects
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H362	May cause harm to breast-fed children
H370	Causes damage to organs
H371	May cause damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
ENVIRONMENTAL HAZARDS	
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
COMBINATION CODES	
H300 + H310	Fatal if swallowed or in contact with skin
H300 + H330	Fatal if swallowed or if inhaled
H310 + H330	Fatal in contact with skin or if inhaled
H300 + H310 + H330	Fatal if swallowed, in contact with skin or if inhaled
H301 + H311	Toxic if swallowed or in contact with skin
H301 + H331	Toxic if swallowed or if inhaled
H311 + H331	Toxic in contact with skin or if inhaled
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H302 + H312	Harmful if swallowed or in contact with skin
H302 + H332	Harmful if swallowed or if inhaled
H312 + H332	Harmful in contact with skin or if inhaled
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled
H315 + H320	Causes skin and eye irritation
ADDITIONAL HAZARD STATEMENTS (EU)	
EUH001	Explosive when dry
EUH006	Explosive with or without contact with air
EUH014	Reacts violently with water
EUH018	In use may form flammable explosive vapour-air mixture
EUH019	May form explosive peroxides
EUH029	Contact with water liberates toxic gas
EUH031	Contact with acids liberates toxic gas
EUH032	Contact with acids liberates very toxic gas
EUH044	Risk of explosion if heated under confinement
EUH059	Hazardous to the ozone layer
EUH066	Repeated exposure may cause skin dryness or cracking
EUH070	Toxic by eye contact
EUH071	Corrosive to the respiratory tract



CODE	DESCRIPTION
GENERAL	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use
PREVENTION	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P220	Keep/Store away from clothing/.../combustible materials.
P221	Take any precaution to avoid mixing with combustibles/...
P222	Do not allow contact with air.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P230	Keep wetted with ...
P231	Handle under inert gas.
P232	Protect from moisture.
P233	Keep container tightly closed.
P234	Keep only in original container.
P235	Keep cool.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P244	Keep reduction valves free from grease and oil.
P250	Do not subject to grinding/shock/.../friction.
P251	Pressurized container: Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P263	Avoid contact during pregnancy/while nursing.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P282	Wear cold insulating gloves/face shield/eye protection.
P283	Wear fire/flammable resistant/retardant clothing.
P284	Wear respiratory protection.
P285	In case of inadequate ventilation wear respiratory protection.
P231 + P232	Handle under inert gas. Protect from moisture.
P235 + P410	Keep cool. Protect from sunlight.
RESPONSE	
P310	Immediately call a POISON CENTER or doctor/physician.
P311	Call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

CODE	DESCRIPTION
RESPONSE (Cont.)	
P313	Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P315	Get immediate medical advice/attention.
P320	Specific treatment is urgent (see ... on this label).
P321	Specific treatment (see ... on this label).
P322	Specific measures (see ...on this label).
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P334	Immerse in cool water/wrap in wet bandages.
P335	Brush off loose particles from skin.
P336	Thaw frosted parts with lukewarm water. Do not rub affected area.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P340	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P341	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342	If experiencing respiratory symptoms:
P350	Gently wash with plenty of soap and water.
P351	Rinse cautiously with water for several minutes.
P352	Wash with plenty of soap and water.
P353	Rinse skin with water/shower.
P360	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P361	Remove/Take off immediately all contaminated clothing.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P371	In case of major fire and large quantities:
P372	Explosion risk in case of fire.
P373	DO NOT fight fire when fire reaches explosives.
P374	Fight fire with normal precautions from a reasonable distance.
P376	Stop leak if safe to do so.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P378	Use ... for extinction.
P380	Evacuate area.
P381	Eliminate all ignition sources if safe to do so.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage. Hazardous to the aquatic environment
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301 + P312	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P334	IF ON SKIN: Immerse in cool water/wrap in wet bandages.
P302 + P350	IF ON SKIN: Gently wash with plenty of soap and water.
P302 + P352	IF ON SKIN: wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse SKIN with water/shower.
P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.



CODE	DESCRIPTION
RESPONSE (Cont.)	
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P306 + P360	IF ON CLOTHING: Rinse immediately contaminated CLOTHING and SKIN with plenty of water before removing clothes.
P307 + P311	IF exposed: call a POISON CENTER or doctor/physician.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P309 + P311	IF exposed or if you feel unwell: call a POISON CENTER or doctor/physician.
P332 + P313	IF SKIN irritation occurs: Get medical advice/attention.
P333 + P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P337 + P313	IF eye irritation persists: Get medical advice/attention.
P342 + P311	IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.
P370 + P376	In case of fire: Stop leak if safe to do so.
P370 + P378	In case of fire: Use ... for extinction.
P370 + P380	In case of fire: Evacuate area.
P370 + P380 + P375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
P371 + P380 + P375	In case of major fire and large quantities: evacuate area. Fight fire remotely due to the risk of explosion.
STORAGE	
P401	Store...
P402	Store in a dry place.
P403	Store in a well-ventilated place.
P404	Store in a closed container.
P405	Store locked up.
P406	Store in corrosive resistant/... container with a resistant inner liner.
P407	Maintain air gap between stacks/pallets.
P410	Protect from sunlight.
P412	Do not expose to temperatures exceeding 50°C/ 122°F.
P413	Store bulk masses greater than ... kg/...lbs at temperatures not exceeding ... °C/...°F.
P420	Store away from other materials.
P422	Store contents under ...
P402 + P404	Store in a dry place. Store in a closed container.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P411 + P235	Store at temperatures not exceeding ... °C/...°F. Keep cool.
P501	Dispose of contents/container to....
P502	Refer to manufacturer/supplier for information on recovery/recycling



Don't forget, SciChem provide a professional waste disposal service for all chemicals and sharps

See page 8 for details



Hazard Class	Category	Pictogram Ref	Signal Word	Code	Hazard Statement	P-Codes
Explosives	Unstable Explosive	GSH01	Danger	H200	Unstable Explosive	P201, P202, P281, P372, P373, P380, P401, P501
	Div 1.1		Danger	H201	Explosive; mass explosion hazard	P210, P230, P240, P250, P280, P370+P380, P372, P373, P401, P501
	Div 1.2		Danger	H202	Explosive; severe projection hazard	P210, P230, P240, P250, P280, P370+P380, P372, P373, P401, P501
	Div 1.3		Danger	H203	Explosive; fire, blast or projection hazard	P210, P230, P240, P250, P280, P370+P380, P372, P373, P401, P501
	Div 1.4		Warning	H204	Fire or projection hazard	P210, P240, P250, P280, P370+P380, P372, P373, P374, P401, P501
	Div 1.5	N/A	Danger	H205	May mass explode in fire	P210, P230, P240, P250, P280, P370+P380, P372, P373, P401, P501
	Div 1.6	N/A				
Flammable gasses	Category 1	GSH02	Danger	H220	Extremely flammable gas	P210, P377, P381, P403
	Category 2	N/A	Warning	H221	Flammable gas	P210, P377, P381, P403
Flammable aerosols	Category 1	GSH02	Danger	H222	Extremely flammable aerosol	P210, P211, P251, P410+P412
	Category 2		Warning	H223	Flammable aerosol	P210, P211, P251, P410+P412
Flammable liquids	Category 1	GSH02	Danger	H224	Extremely flammable liquid and vapour	P210, P233, P240, P241, P242, P243, P280, P303+ P361+P353, P370+P378, P403+P235, P501
	Category 2		Danger	H225	Highly Flammable liquid and vapour	
	Category 3		Warning	H226	Flammable liquid and vapour	
Flammable solids	Category 1		Danger	H228	Flammable Solid	P210, P240, P241, P280, P370+P378
	Category 2		Warning			
Self-reactive substances and mixtures; and organic peroxides	Type A	GSH01	Danger	H240	Heating may cause an explosion	P210, P220, P234, P280, P370+ P378, P370+ P380+P375, P403+P235, P411, P420, P501
	Type B		Danger	H241	Heating may cause a fire or explosion	P210, P220, P234, P280, P370+P378, P370+ P380+P375, P403+P235, P411, P420, P501
	Type C & D	GSH02	Danger	H242	Heating may cause a fire	P210, P220, P234, P280, P370+P378, P403+P235, P411, P420, P501
	Type E & F		Warning	H242	Heating may cause a fire	P210, P220, P234, P280, P370+P378, P403+P235, P411, P420, P501
	Type G	N/A				
Pyrophoric liquids pyrophoric solids Self-heating substances and mixtures Substances and mixtures which, in contact with water emit flammable gases	Category 1	GSH01	Danger	H250	Catches fire spontaneously if exposed to air	P210, P222, P280, P302+P334, P370+P378, P422
	Category 1		Danger	H251	Self-heating; may catch fire	P235+P410, P280, P407, P413, P420
	Category 2		Warning	H252	Self-heating in large quantities; may catch fire	H260 H261
	Category 1		Danger	H260	In contact with water releases flammable gases which may ignite spontaneously	P223, P231+P232, P280, P335+ P334, P370+P378, P402+P404, P501
	Category 2		Danger	H261	In contact with water releases flammable gas	
	Category 3		Warning	H261	In contact with water releases flammable gas	P231+P232, P280, P370+P378, P402+P404, P501
Oxidising gases Oxidising liquids; oxidising solids	Category 1	GSH03	Danger	H270	May cause or intensify fire; oxidizer	P220, P244, P370+P376, P403
	Category 1		Danger	H271	May cause fire or explosion; strong oxidiser	P210, P220, P221, P280, P283 P306+P360, P371+P380+P375, P370+P378, P501
	Category 2		Danger	H272	May intensify fire; oxidizer	P210, P220, P221, P280, P370+P378, P501
	Category 3		Warning	H272	May intensify fire; oxidizer	
Gases under pressure	Compressed gas Liquefied gas Dissolved gas	GSH03	Warning	H280	Contains gas under pressure; may explode if heated	P410+P403
	Refrigerated liquefied gas		Warning	H281	Contains refrigerated gas may cause cryogenic burns or injury	P282, P336, P315, P403
Corrosive to metals	Category 1	GSH03	Warning	H290	May be corrosive to metals	P234, P390, P404
Acute toxicity, oral	Category 1 & 2	GSH03	Danger	H300	Fatal if swallowed	P264, P270, P301+P310, P321, P330, P405, P501
	Category 3		Danger	H301	Toxic if swallowed	P264, P270, P301+P310, P321, P330, P405, P501
	Category 4		Warning	H302	Harmful if swallowed	P264, P270, P301+P312, P330, P501

HAZARD CLASS	CATEGORY	PICTOGRAM REF	SIGNAL WORD	CODE	HAZARD STATEMENT	P-CODES
Aspiration hazard	Category 1	GSH08	Danger	H304	May be fatal if swallowed and enters airways	P301+P310, P331, P405, P501
Acute toxicity, dermal	Category 1 & 2	GSH06	Danger	H310	Fatal in contact with skin	P262, P264, P270, P280, P302+P350, P310, P322, P361, P363, P405, P501
	Category 3		Danger	H311	Toxic in contact with skin	P280, P302+P352, 312, P322, P361, P363, P405, P501
	Category 4		Warning	H312	Harmful in contact with skin	P280, P302+P352, P312, 322, P363, P501
Skin corrosion/irritation	Category 1A, B & C	GSH06	Danger	H314	Causes severe skin burns and eye damage	P260, P264, P280, P301+P330+ P331, P303+P361+P353, P363, P304+P340, P310, P321, P305+ P351+P338, P405, P501
	Category 2	GSH07	Warning	H315	Causes skin irritation	P264, P280, P302+P352, P321, P332+P313, P362
Sensitive skin	Category 1	GSH07	Warning	H317	May cause an allergic skin reaction	P261, P272, P280, P302+P352, P333+P313, P321, P363, P501
Serious eye damage/eye irritation	Category 1	GSH05	Danger	H318	Causes serious eye damage	P280, P305+P351+P338, P310
	Category 2	GSH07	Warning	H319	Causes serious eye irritation	P264, P280, P305+P351+P338, P337+P313
Acute toxicity, inhalation	Category 1 & 2	GSH06	Danger	H330	Fatal if inhaled	P260, P271, P284, P304+P340, P310, P320, P403+P233, P405, P501
	Category 3		Danger	H331	Toxic if inhaled	P261, P271, P304+P340, P311, P321, P403+P233, P405, P501
	Category 4	GSH07	Warning	H332	Harmful if inhaled	P261, P271, P304+P340, P312
Sensitisation, respiratory	Category 1	GSH08	Danger	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	P261, P285, P304+P341, P342+P311, P501
Specific target organ toxicity, single exposure; respiratory tract irritation	Category 3	GSH07	Warning	H335	May cause respiratory irritation	P261, P271, P304+P340 P312, P403+P233, P405, P501
Specific target organ toxicity, single exposure; narcotic effect	Category 3	GSH07	Warning	H336	May cause drowsiness or dizziness	
Germ cell mutagenicity	Category 1A, 1B	GSH08	Danger	H340	May cause genetic defects	P201, P202, P28, P308+P313, P405, P501
	Category 2		Warning	H341	Suspected of causing genetic defects	
Carcinogenicity	Category 1A, 1B	GSH08	Danger	H350	May cause cancer	P201, P202, P281, P201, P202, P281
	Category 2		Warning	H351	Suspected of causing cancer	
Reproductive toxicity	Category 1A, 1B	GSH08	Danger	H360	May damage fertility or the unborn child	P201, P202, P281, P308+P313, P405, P501
	Category 2		Warning	H361	Suspected of damaging fertility or the unborn child	
Reproductive toxicity, effects on/via lactation	Additional Category	N/A	Danger	H362	May cause harm to breast-fed children	P201, P260, P263, P264, P270, P308+P313
Specific target organ toxicity, single exposure	Category 1	GSH08	Danger	H370	Causes damage to organs	P260, P264, P270, P307+P311, P321, P405, P501
	Category 2		Warning	H371	May cause damage to organs	P260, P264, P270, P309+P311, P405, P501
Specific target organ toxicity, repeated exposure	Category 1	GSH08	Danger	H372	Causes damage to organs through prolonged or repeated exposure	P260, P264, P270, P314, P501
	Category 2		Warning	H373	Causes damage to organs through prolonged or repeated exposure	P260, P314, P501
Hazardous to the aquatic environment	Category 1	GSH09	Warning	H400	Very toxic to aquatic life	P273, P391, P501
Corrosive to metals	Category 1	GSH03	Warning	H290	May be corrosive to metals	P234, P390, P404
Hazardous to the aquatic environment, long-term hazard	Category 1	GSH09	Warning	H410	Very toxic to aquatic life with long lasting effects	P273, P391, P501
	Category 2			H411	Toxic to aquatic life with long lasting effects	
	Category 3	N/A		H412	Harmful to aquatic life with long lasting effects	P264, P270, P301+P312, P330, P501
	Category 4			H413	May cause long lasting harmful effects to aquatic life	

PICTOGRAM REFERENCES:  GSH01  GSH02  GSH03  GSH04  GSH05  GSH06  GSH07  GSH08  GSH09



#

1-6 Diaminohexane
Hexane-1-6-Diamine
HE030

2-Hydroxy Propane-1,2,3-Tricarboxylic Acid
Citric Acid
0090/1

3-Aminophthalhydrazide
Luminol
LU005

A

Adenosine-5-Triphosphoric Acid
ATP
AT005

Alcohol, Industrial
Ethanol - Industrial Methylated Spirit
ET025

Ammonium Ethanoate
Ammonium Acetate
AM030

Ammonium Ferric Sulfate
Ammonium Iron (III) Sulfate
AM100

Ammonium Ferrous Sulfate
Ammonium Iron (II) Sulfate
AM095

Ammonium Oxalate
Ammonium Ethanedioate
AM065

Ammonium Purpurate
Murexide
MU005

Aniline
Phenylamine
PH040

B

Benzyl Alcohol
Phenylmethanol
PH080

Boric Acid Trioxoboric (III)
Acid Cryst
TR075

C

Calcium Ethanoate
Calcium Acetate
CA040

Calcium Hydroxide Solution
Lime Water
LI005

Calcium Hypochlorite
Bleaching Powder
BI005

Carbamide
Urea
UR020

Carbolic Acid
Phenol
PH005

Carbonic Acid
Sodium Carbonate
SO075

Caustic Soda
Sodium Hydroxide
SO200

Chloroform
Trichloromethane
TR050

Chromic Acid
Chromium (VI) Oxide
CH060

Copper Ethanoate
Copper (II) Acetate-1-Water
CO065

Cupric Salts
Copper (II) Salts
CO090

Cuprous Salts
Copper (I) Salts
CO085

D

DCPIP
2-6 Dichlorophenolindophenol
DI055

Diethyl Ether
Ethoxyethane
ET040

Dodecyl Sulfate
Sodium Lauryl Sulfate
SO235

Eriochrome Black T
Solochrome Black
SO370

E

Ethanal
Acetaldehyde
AC010

Ethanamide
Acetamide
AC015

Ethanoic Acid
Acetic Acid
AC025

Ethanoic Anhydride
Acetic Anhydride
AC035

Ethanol
Ethyl Alcohol
ET020

Ethyl Bromide
Bromoethane
BR080

Ethyl Ethanoate
Ethyl acetate
ET055

Ethyl Iodide
Iodoethane
IO030

Ethylene Glycol
Ethane 1-2 Diol
ET010

Ethylenediamine Tetraacetic Acid
E.D.T.A
ED005

F

Formaldehyde
Methanal
ME050

G

Glycerol
Propane 1-2-3-Triol
PR015

Gum Acacia
Acacia
AC005

H

Hexamethylenetetramine
Hexamine
HE017

Hydroquinone
Benzene-1-4-Diol
BE050

I

Iso-Amyl Alcohol
3-Methyl Butan-ol
ME125

Iso-Butyl Alcohol
2-Methylpropan-1-ol
ME175

Iso-Octane
2-2-4-Trimethylpentane
TR070

Iso-Propyl Alcohol
Propan-2-ol
PR030

L

Laeulose
D-Fructose
FR005

Lead Ethanoate
Lead (II) Acetate-3-Water
LE025

Lead Monoxide
Lead (II) Oxide Litharge
LE070

Lead, Red
Lead (II,IV) Oxide
LE055

Stock Up on Safety Essentials



Find more safety equipment on page 195

M

Marble Chips
Calcium Carbonate
CA045

Methanoic Acid
Formic Acid
FO005

Methyl Alcohol
Methanol
ME060

Methyl Ethyl Ketone
Butanone
BU090

Methylene Chloride
Dichloromethane
DI040

N

N-Amyl Alcohol
Pentan-1-ol
PE010

N-Butyl alcohol
Butan-1-ol
BU080

N-Butyl bromide
1-Bromobutane
BR040

N-Butyl iodide
1-Iodobutane
IO025

N-Butyraldehyde
Butanal
BU060

N-Butyric acid
Butanoic Acid
BU100

N-Octanol
Octan-1-ol
AC021

N-Phenylacetamide
Acetanilide
AC020

N-Propyl alcohol
Propan-1-ol
PR025

O

Oleic Acid
Octadec-9-Enoic Acid
OC010

Oxalic Acid
Ethanedioic Acid-2-Water
ET005

O-Xylene
1-2 Dimethylbenzene
DI080

P

Petroleum Spirit
Petroleum Ether
PE055

Plaster of Paris
Calcium Sulfate Anhydrous
CA095

PMMA
Methyl Methacrylate
ME215

Potassium Periodate
Potassium Iodate (VII)
PO170

Potassium Permanganate
Potassium (VII) Manganate
PO121

Propanone
Acetone
AC040

Propionaldehyde
Propanal
PR005

Propylene Glycol
Propane ^9^9-dio
PR010

Pyrogallol
Benzene-1-2-3-Triol
BE055

Q

Quicklime
Calcium Oxide
CA08

R

Resorcinol
Benzene-1-3-Diol
BE045

Rochelle Salts
Potassium Sodium Tartarate
PO140

S

Salicylic Acid
2-Hydrobenzoic Acid
HY055

Salol
Phenyl-2-Hydroxybenzoate
PH075

Sec-Butyl Alcohol
Butan-2-ol
BU085/A

Soda Ash
Sodium Carbonate Anhydrous
O274/500

Sodium Bicarbonate
Sodium Hydrogen Carbonate
SO175

Sodium Ethanoate
Sodium Acetate-3-Wwater
SO035

Stearic Acid
Octadecanoic Acid
OC015

Styrene
Phenylethylenemonomer
PH060/100

Succinic Acid
Butanedioic Acid
BU070

Sugar
Sucrose
SU010

Sulphamic Acid
Aminosulphonic Acid
AM015

T

Talc
French Chalk
TA005

Tannins
Tannic Acid
TA015

Tert-Butyl alcohol
2-Methylpropan-2-ol
ME180

Toluene
Methyl Benzene
ME110

Trichloroethene
Trichloroethylene
TR035

Turpentine Substitute
White Spirit
WH010

V

Vitamin C
Ascorbic Acid
AS010



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Affordable Digital Hotplate Stirrers Designed for Safety, Powerful Stirring and Fast Heating

OHAUS Guardian™ 3000 Hotplate Stirrers are designed for economical heating and stirring in all laboratory settings. The bright LCD display includes easy-to-read temperature and speed settings, intuitive icons and a prominent hot top indicator that lights up when the heater is above 40°C. Select from three plate sizes to suit your application. All models can be used with the optional temperature probe for precise temperature control of the sample.



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- SafetyHeat™ technology avoids over heating
- Designed to last with rugged housing

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LAB EQUIPMENT

AUTOClaves	104	GLASS WASHERS	118
BALANCES	105	HEATING MANTLES	119
BATHS	109	HOT PLATES & STIRRERS	120
CENTRIFUGES	112	INCUBATORS	123
COLORIMETERS	115	MIXERS & ROLLERS	124
CUVETTES	116	OVENS	125
FURNACES	117	WATER PURIFICATION	126



CENTRIFUGES



HOT PLATES



OVENS



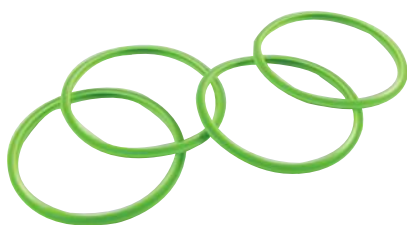
BATHS



Classic Media Autoclave

Two models, choose either 9 or 12 litre capacity models. Fits neatly on a work bench. Easy to operate & fully automatic - Load your equipment into one of the special baskets and set the programme with the one-touch button. Reliable - Special in-built software ensures exact temperatures are reached for the correct duration. Interlock safety mechanism, built-in safety mechanism that prevents the unit being opened until the temperature inside has fallen to a safe level. Eliminates the risk of super heated vessels exploding. Prevents the escape of gas or vapour. Removes the potential of accidental overbalance whilst sterilising. Supplied with basket.

Code	Description	Price
AUT280010	Standard 9L	£1295.95
AUT280020	Extended 12L	£1574.95



Gasket for Classic Media Autoclave

Gasket for Classic Media Autoclave.

Code	Description	Price
AUT280500	Gasket, Each	£47.03

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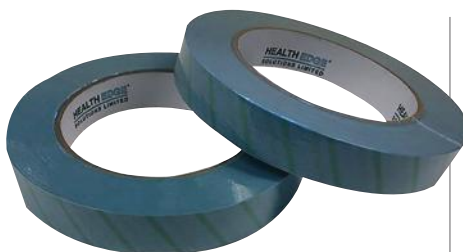
Express Range Autoclave

The ST 1528 is made from stainless steel with a polished exterior for easier cleaning. The lid is removable for full width access. Items to be sterilised can be placed in the inner liner provided with the machine. The lid locking device is comprised of six wing nuts and six lid locking lugs. This ensures that the lid cannot be opened while the vessel is under pressure. After the sterilising period, a condensing vacuum is drawn to aid drying. This is particularly useful for dressings and drapes. The ST 1528 is particularly suitable for destructive sterilisation. The operator is not restricted to a set sterilising period. This can be adjusted to suit the application.

Code	Description	Price
AUT080011	Autoclave Express ST1528 S/S	£3829.95

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Autoclave Indicator Tape

Specifically for use with disposable wraps. Should not be used with linen or muslin. The white strips turn black when autoclaving temperature is reached.

Code	Description	Price
AUC040020	24mm Tape. 50m Roll	£6.12



**PACK
OF 200**

Autoclave Bags

Pack of 200 polypropylene bags with Biohazard symbol for autoclaves, ideal for Petri-dishes, tubes and other contaminated products. Thickness: 40µm +151°C. Available in 413 x 632mm or 610 x 810mm.

Code	Description	Price
AUC150031	413 x 632mm	£38.71
AUC150041	610 x 810mm	£69.95

BEST
SELLER

BLE800020



Ohaus CR Balance

The Compass CR series provides basic weighing functionality and competitive performance at an economical price. Features such as a slim, stackable design, and an enlarged weighing platform, make the CR series perfect for a variety of portable weighing applications.

Code	Description	Price
BLE800020	Ohaus CR 620g x 0.1g	£48.41
BLE800030	Ohaus CR 2200g x 1g	£41.20
BLE800040	Ohaus CR 5200g x 1g	£48.41

BLE800030



BLE800040



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Compact Size
Easy to store

Academy Balance 500 x 0.01g

Weighing surface: 100x100mm.LCD display with backlight. Auto calibration.Auto off. Two scale pans included.Batteries: 2 x AAA included. Material: stainless steel/plastic.

Code	Description	Price
BLE200000	Academy Balance 500 x 0.01g	£19.06





BLE460010

Ohaus NVE Balance

Durably constructed and multifunctional, the NVE is a powerful balance that can handle a diverse range of weighing applications in the classroom such as parts counting, percent weighing, and checkweighing.

Code	Description	Price
BLE460010	Ohaus NVE Balance 610g x 0.01g	£99.91
BLE460020	Ohaus NVE Balance 2100g x 0.01g	£157.59

Powerful balance that can handle a diverse range of weighing applications



BLE460020

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DRAFT SHIELD INCLUDED

Precision Balance

Precision Balance with draft shield The Edulab Precision balances have been designed to offer an economical yet comprehensive solution for accurate weighing. A selection of capacities (three models available – 500, 1000 and 2000g x 0.01g).

Code	Description	Price
602-110	Precision Balance - 500g x 0.01g	£90.76
602-111	Precision Balance - 1000g x 0.01g	£99.28
602-112	Precision Balance - 2000g x 0.01g	£113.45

Budget Precision Balance

This precision weighing balance is housed in an impact-resistant ABS case with a 115mm stainless steel weighing pan, splash-proof membrane keypad, levelling bubble and adjustable feet. The balance can be either battery or mains powered via an AC/DC Adaptor. Features: Weighs in g, oz, ct and tola. Splash-proof membrane keypad incorporating 3 function keys 26mm Hi-Contrast LCD display with Backlight. Automatic backlight when weight is placed on the pan. Zero tracking ensures stable and repeatable readings. Tare facility over the full range. Overload protection to 100% over capacity. Low Battery indication. Auto Power Off after 3 minutes of no activity - can be user disabled. Supplied with user guide and batteries. Mains adaptor not supplied.

Code	Description	Price
BAL100010	600g x 0.01g	£96.70



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Can be battery or
mains-powered



Space Saving
Design

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EXCEL FRAMEWORK

Ohaus CX Balance

Designed with energy efficiency in mind, the Compass CX series offers a battery life of up to 1,000 continuous hours, allowing for uninterrupted operation. Featuring a slim, stackable and light-weight design, the CX fits ideally in lab, industrial, education, and even household settings. The streamlined two-button operation means that the balance can be operated easily, and large backlit LCD display enables easy viewing of weighing results.

Code	Description	Price
BLE700010	Ohaus CX Balance 220g x 0.1g (Each)	£69.01
BLE700020	Ohaus CX Balance 620g x 0.1g (Each)	£74.16
BLE700030	Ohaus CX Balance 1200g x 0.1g (Each)	£80.34
BLE700040	Ohaus CX Balance 2200g x 1g (Each)	£78.28
BLE700050	Ohaus CX Balance 5200g x 1g (Each)	£74.16



Ohaus Scout Balance

The Next Generation of Portable Balance for your Classroom. Large LCD display and connectivity options for use with data logging systems. Superior overload protection and practical stackable design for convenient storage. High performance with fast stabilisation time. Fast stabilisation time, menu lock switch, security bracket, integral weigh below hook for below balance weighing applications, transportation lock, removable stainless steel weighing platform, stability indicator, overload and underload indicators, low battery indicator, auto shut-off. Display: Backlit LCD: 6-digit 7-segment with white LED back. Operation: AC Adapter (Included), batteries (not included) Communication: Optional RS232, USB host, USB device, Bluetooth or Ethernet. Construction: ABS housing, stainless steel pan, replaceable in-use cover.

Code	Description	Price
BLE440010	Ohaus Scout Balance 220g x 0.01g	£296.64
BLE440020	Ohaus Scout Balance 420g x 0.01g	£360.50
BLE440030	Ohaus Scout Balance 620g x 0.01g	£396.55
BLE440060	Ohaus Scout Balance 2200g x 0.1g	£316.21
BLE440070	Ohaus Scout Balance 6200g x 0.1g	£402.73
BLE450580	Replacement Power Supply for Scout Balance	£24.93



AC Adapter Included
with all models



BLE440010

**2-YEAR
WARRANTY**



BLE440070



High Accuracy &
Repeatability



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Ohaus Pioneer Balance

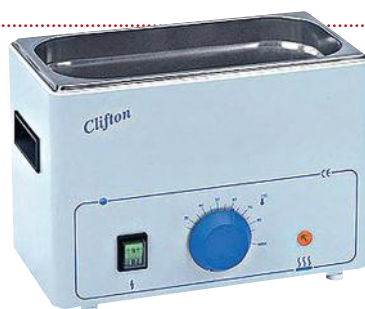
The Pioneer PX combines essential weighing functionality with competitive performance, offering high accuracy and repeatability for applications in laboratory, industrial and education settings.

Code	Description	Price
BLE350042	Ohaus Pioneer 320gx0.001g PX323E	£906.40
BLE350072	Ohaus Pioneer 3200gx0.01g PX3202E	£932.15

NE1 Series Unstirred Thermostatic Water Bath

Comprising a 304 spec (18/8) stainless steel tank housed in a durable powder coated exterior, chemical resistant and now featuring anti-bacterial paint finish outer case. Heater and safety cut out concealed underneath providing a totally clear 'clutter-free working area. Easy to use thermostatic control, graduated in 5°C increments, with illuminated on/off switch and 'heater on' indicator. Features Include: Thermostatic control. Stainless steel electro polished interior. Mild steel stove enamelled exterior, chemical resistant with antibacterial paint finish. Low height removable stainless steel shelf - water saving feature, reducing energy consumption and increasing working volume. Side lifting handles for ease of transportation. Large bore drain outlet fitted to 22/28 litre baths for rapid emptying; gated tap may be fitted if required. A range of accessories including racks and lids is available. 3 year warranty. Factory calibrated at 45°C for constant temperature control. Shallow Form Water Bath. This shallow form Clifton Water Bath is perfect for heating small height samples such as micro tubes, micro plates and bottles. Perfect for heating samples in microcentrifuge tubes and other molecular-biology routines. If using your water bath at temperatures above 60°C, you will require a lid. NB: These operate up to 100°C but are not designed for continuous boiling.

Code	Description	Price
BWN040010	4 Litres	£385.95
BWN040020	8 Litres	£439.95
BWN040030	14 Litres	£399.95
BWN040040	22 Litres	£519.95
BWN040050	28 Litres	£599.95



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BEST
SELLER



Side handles for
easier lifting



NE2D Series Unstirred Digital Water Bath

Comprising a 304 spec (18/8) stainless steel tank housed in a durable powder coated exterior, chemical resistant and now featuring antibacterial paint finish outer case. This popular range of water baths have PID control featuring adaptive tuning, providing instant control from start up automatically adjusting PID values with actual temperature readings until it achieves set temperature. Features Include: Removable perforated tray. Undertank heating provides a broad and even spread of heating for excellent temperature uniformity. Large bright LED display, actual liquid temperature to 0.1°C resolution. Auto setting alarms for protection. Touch pad controls, wipe clean front, chemical resistant. Large bore drain outlet fitted to 22/28 litre baths for rapid emptying; gated tap may be fitted if required. 3 year warranty. Factory calibrated at two temperatures for constant temperature control. If using your water bath at temperatures above 60°C, you will require a lid. NB: These operate up to 100°C but are not designed for continuous boiling.

Code	Description	Price
BWN070020	8 Litres	£572.39
BWN070030	14 Litres	£590.64
BWN070040	22 Litres	£700.25
BWN070050	28 Litres	£767.24

NE1D Series Unstirred Digital Water Bath

Clifton digital baths are designed for general use and are economically priced without compromising quality. Simple digital controller for setting temperature with 1°C divisions. Designed for immersion of flasks, bottles and racks in a highly stable temperature environment. High quality build and features. Comprising a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature antibacterial finish with good chemical resistance. Fitted with side lifting handles for easy lifting.

Heaters and temperature sensor concealed under the tank provide a clutter free working area which is easy to wipe clean. Supplied with a removable sturdy low height stainless steel perforated shelf, for even heat distribution. The shelf provides a taller volume of water, for standing containers and accessory test tube racks in the bath.

Three year warranty and comprehensive customer support.

Accessory lids available separately. Controls and safety.

Temperatures can be easily and rapidly set with the push button, wipe clean control panel. Temperature setting is retained in memory, even after power off illuminated on/off switch and heater indication lamp. Factory calibrated controls and water temperature at 45°C for consistent temperature control in use.

Thermal cut out fitted in the heater. IP rated clear boot on/off mains switch. Bath fitted with nonslip rubber feet. If using your water bath at temperatures above 60°C, you will require a lid.

NB: These operate up to 100°C but are not designed for continuous boiling.

Code	Description	Price
BWN400010	4 Litres	£419.95
BWN400020	14 Litres	£489.95
BWN400030	22 Litres	£599.95



**CONTROL FROM
GENTLE SIMMER
TO VIGOROUS BOIL**



NE1B Series Unstirred Boiling Bath

Designed for applications that require continuous boiling. This bath also has the flexibility where the control can be regulated from a gentle simmer to a vigorous boil.

Fitted with a sheathed immersion element. With the heater directly immersed in water it provides rapid boiling. A standard feature is a constant level device, which maintains a fixed level of liquid thereby eliminating the need to regularly top up the bath.

Code	Description	Price
CLF100019	14 Litres	£799.95
CLF100021	28 Litres	£889.95

XUBA Analogue Ultrasonic Bath

This reliable, high-performance ultrasonic bath offers fast, safe and cost-effective consistent ultrasonics for various applications. It is a compact analogue controlled ultrasonic bath, providing a high standard of reliable and effective ultrasonic technology. This bath represents great value-for-money, with stainless steel basket and ABS plastic lid included as standard.

Excellent entry level ultrasonic bath. Fast, effective, efficient, easy and safe cleaning and processing of diverse instruments, components and solutions. Robust design offers outstanding durability and reliability.

Innovative transducer technology provides outstanding performance and reliability. Gentle yet effective cleaning ensuring consistent results for rapid and complete removal of contaminants. Clean finish, high-quality and robust design for long-term reliability and durability.

Code	Description	Price
BUS160010	1.5 Litres	£443.95



Compact design

Expert Advice

Our experts are always happy to help, call on: **01902 402 402**



PSU Base 100°C Digital Water Bath in Gratnells Tray

The PSU Base Water Bath is a safe and cost-effective digitally controlled, 8-litre water bath situated within a Gratnells deep tray. The heating element is a sealed silicone unit with a maximum power of 500W. The temperature controller has a digital temperature lock, with which the user can set the maximum temperature. A temperature probe on a flying lead allows either the temperature of the water bath to be controlled or it can be placed in the vessel to be heated to control that temperature. It is particularly suitable for use in hard water areas as any calcification can be easily wiped off the silicone heating unit. The heating unit is housed in a stainless steel sleeve that provides a safe base away from direct heat and will not rust. Importantly the controller features an electronic water level cut-out with audible warning prior to cut-out: a vital safety feature.

Supplied with an aluminium z-shaped test tube rack and a clear Gratnells tray lid for ease of storage. H150mm x W312 x D417mm. Weight 3.8kg.

Code	Description	Price
BWN4000099	100°C Digital Water Bath	£385.95

JB Nova Digital Unstirred Water Bath

General purpose water baths with stable temperature control, simple controls and fast heatup. Base tray and lid included as standard. Unique Set and Forge technology - fast reliable temperature control. Simple, intuitive controls - quick and easy to set temperature. Drain tap on 12L, 18L and 26L baths. Practical front panel lock - disables front panel controls preventing unintentional temperatures changes. 3-year warranty.

Code	Description	Price
BWG035042	12 Litres	£654.95



JB Academy Basic Unstirred Water Bath

An ideal choice for schools and colleges requiring a basic simple-to-use quality water bath. Base tray included as standard. Ambient +5°C to 95°C. Unique Set and Forge technology - fast heat-up, reliable temperature control. Simple, intuitive controls - quick and easy to set temperature Practical front panel lock - disables front panel controls preventing unintentional temperature changes. 3 year warranty.

Code	Description	Price
BWG190010	5 Litres	£499.95
BWG190020	12 Litres	£549.95



NE 010G Clifton Targa Centrifuge

This Targa Centrifuge is the latest model in the Clifton Range designed specifically for the education market. The high quality product combines all key features from previous Clifton models, ensuring it is the go to product for all your educational centrifugation needs. It is compact and robust, making it ideal for routine low speed centrifugation. Perfect for fractionation of samples and simple separation of biological cells. High quality build and features Compact and robust construction making this centrifuge durable and hard-wearing. The rotor is removable for easy cleaning and push button control panel is wipe clean.

Code	Description	Price
CEN110010	NE 010G Clifton Targa Centrifuge	£954.95



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BRUSHLESS QUIET
MOTOR

BEST
SELLER

Frontier 5306 Mini Centrifuge

Brushless quiet motor. Auto shut-off safety switches. Simple one-step operation The OHAUS Frontier 5306 is a small but powerful mini centrifuge for simple and quick liquid separation. With an 8 place 1.5/2ml tube rotor as well as a 4 place PCR 8-strip tube rotor, Frontier 5306 can accommodate 0.2mL 8 strip tubes or 32 individual PCR tubes. With the included adapter, 0.2mL and 0.5mL tubes can also be accommodated in the 8 place tube rotor. This centrifuge provides quiet, safe, and easy operation for your everyday quick spin-down applications.

Code	Description	Price
CEN200040	Frontier 5306 Mini Centrifuge	£199.82

Expert Advice

Our experts are always happy to help, call on: **01902 402 402**



For a multitude of
spin-down applications

Frontier 5706 Multi Centrifuge

Frontier 5706 is a small benchtop multi-function centrifuge ideal for a multitude of spin-down applications. Characterized by reliability, various safety features, the ability to accommodate test tubes of various sizes and intuitive operation. Frontier 5706 was built to meet the basic need for liquid separation in the life sciences.

Code	Description	Price
CEN200030	Frontier 5706 Multi Centrifuge	£1581.05

ISG Mini Centrifuge

The ISG® Micro centrifuge is ideal for your laboratory if you are looking to do the following; DNA extraction and concentration, quick spin downs, microfiltration and cell separation. This ISG® Micro centrifuge runs to a maximum of 7000rpm and has a noise level of less than 45db.

Code	Description	Price
153-001	ISG Mini Centrifuge	£111.90

Value for
Money!



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**BEST
SELLER**

ISG Clinical Centrifuge

Although this ISG® centrifuge is competitively priced to suit education budgets it has been designed to be used in Medical and University research laboratories. Some of the main uses include separation of serum, plasma, urea and blood samples.

Code	Description	Price
153-003	ISG Clinical Centrifuge	£621.39

**BEST
SELLER**



Economy Hand Operated Centrifuge

A single speed hand driven machine consisting of die cast parts and a steel pinion and worm drive. Screw clamps the machine to bench. Finished in grey colour with removable crank handle. Suitable for 4x 15ml polythene tubes.

Code	Description	Price
CEN610010	Economy Hand Operated Centrifuge	£17.95

**VERY DURABLE
& LONG-LASTING**



Hand Operated Centrifuge

A single speed hand driven machine consisting of die cast parts and a steel pinion and worm drive. The test tube holders and rings are made of metal. A heavy duty gear drive system makes this unit very durable and long lasting. Screw clamps the machine to bench.

Code	Description	Price
CEN600010	Hand Operated Centrifuge	£27.52



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Easy
Opening Cap

**PACK
OF 1000**

Micro Centrifuge Tubes

Micro centrifuge tubes, PP. 1.5ml. 1000 pack.

Code	Description	Price
DCT470066	1.5ml PP	£27.25



Polypropylene for
chemical resistance
and strength

**PACK
OF 500**

Centrifuge Tubes

15ml threaded centrifuge tubes in polypropylene for chemical resistance and strength. Blue screwcap supplied assembled

Code	Description	Price
DCT200080	15ml PP Conical Grad	£92.70

**COMPACT &
EASY TO STORE**

Mystrica Colorimeter 2.0

The new, improved wireless version of the Mystrica colorimeter is now available and replaces the previous version. This version now allows the use of test tubes as well as cuvettes, creating a more versatile unit. Along with other modifications to enhance performance this represents an outstanding combination of value, performance and utility. Other previous features remain unchanged.

- ✓ Wireless connection to iPads, iPhones and Android™ devices
- ✓ Mystrica Colorimeter app available on the App Store and Google Play™
- ✓ Unchanged USB connection for PCs • Stand-alone use unchanged
- ✓ Each colorimeter has a unique identity. The app detects all units within range of an iPad or iPhone and allows one to be selected.
- ✓ Collect data as graphs and tables
- ✓ Continuous data collection or separate readings
- ✓ Best fit line for rate of reaction
- ✓ Email results as .csv file for analysis and storage

This compact colorimeter which provides exceptional value for money along with a rugged, compact design, proven reliability and simplicity of use. The Mystrica Colorimeter can be used as a stand alone unit or through a computer to measure reaction rates, concentrations, enzyme activity, population growth etc. Ideal for use in schools and colleges and the software has been designed to be 'teacher friendly'!

Dimensions (L x W x H): 155 x 90 50mm.

Code	Description	Price
505-258	Mystrica Colorimeter 2.0	£149.00



Lightweight &
Ergonomic Design

Colourwave Colorimeter

The Biochrom WPA C07500 colorimeter is a value for money instrument that has been designed for use in educational establishments such as schools and colleges.

It is compact, lightweight and ergonomically designed to withstand student use! This makes it ideal for use in busy teaching laboratories. The large display is easy to read and the instrument is simple to both set up and use, giving rapid results. The samples can be measured in either standard or semi micro 10mm pathlength cuvettes or in 16mm diameter test tubes (adapters for 10/12 mm test tubes are available).

Code	Description	Price
COL061010	Colourwave Colorimeter	£649.95

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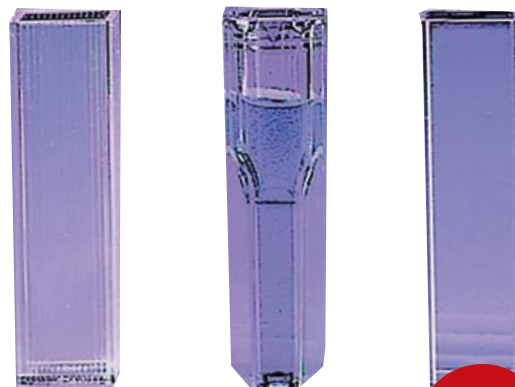



**PACK
OF 100**

Visible Range Cuvettes

Optical PS Material (H x W): 45 x 12.5mm NB: Any pair of faces of the CUV 010 010 can be used without affecting performance.

Code	Description	Price
CUV010010	Fluorimetry, 4.5ml	£10.34
CUV010021	Macro, 4.5ml	£10.14
CUV010030	Semi-Micro, 2.5ml	£11.36
CUV010040	Semi-Micro, 1.5ml	£11.15


**BEST
SELLER**

UV Range Cuvettes

PMMA (Optical methacrylate) has better transmission characteristics than optical polystyrene and can therefore be used below 300nm. NOTE: Any pair of faces of the UV range cuvette CUV 020 020 can be used without affecting performance. Physical size (H x W): 45 x 12.5mm Optical path length: 10mm.

Code	Description	Price
CUV020020	Macro, 4.5ml	£12.95
CUV020030	Semi-Micro, 2.5ml	£15.87

**PACK
OF 100**

Expert Advice

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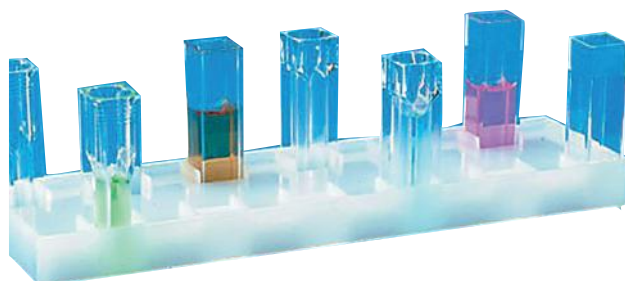
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**PACK
OF 1000**

Cuvette Caps

Macro Cuvette Caps for 10mm Square, 4.5ml Macro Cuvettes. Pack of 1000.

Code	Description	Price
COL090500	PP, PK100	£31.75



Cuvette Holder

PE Cuvette Holder-Polyethylene cuvette holder which can accommodate 12 x 10mm cuvettes vertically in firm recesses for preparation work or 12 x 10mm cuvettes horizontally for storage and protection.

Code	Description	Price
CUV020500	12 Place Cuvette Holder (Each)	£3.25

Economy Furnace

This model has two side-mounted free radiating elements embedded in the latest low thermal mass insulation, which ensures rapid heat up, while providing excellent thermal uniformity within the chamber volume. Ideal for light heat treatment applications, this is not suited for ashing or heavy duties; please ask for details.

Digital PID temperature controller (type 301) ensures precise and repeatable temperatures with push button temperature setting and adjustable heating rate and timer feature. Safety features include positive break door-open switch and double skinned body for safe outer surface temperature.

Removable dense ceramic chamber hearth floor for easy spillage clean up. Drop down door design may be used as a shelf to aid loading/unloading. Please note that this item is delivered direct from our supplier and may have a delivery charge imposed. Please ask at the time of ordering.

Code	Description	Price
FUR010010	6 Litres	£2996.95



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Miele Laboratory Glass Washer

Designed to excel in professional laboratories and educational establishments, the PG8504 commercial glassware washer integrates a number of features to guarantee you optimum results, on every wash. Setting a new standard in clean, this glassware washer boasts an improved capacity, allowing you to clean large numbers of utensils and equipment quickly. Suitable as a freestanding or under counter unit, the stainless steel PG8504 has been specially constructed to reduce heat and noise emissions, and the interior has been welded together using lasers, meaning that there are no cracks or crevices for dirt to build up in.

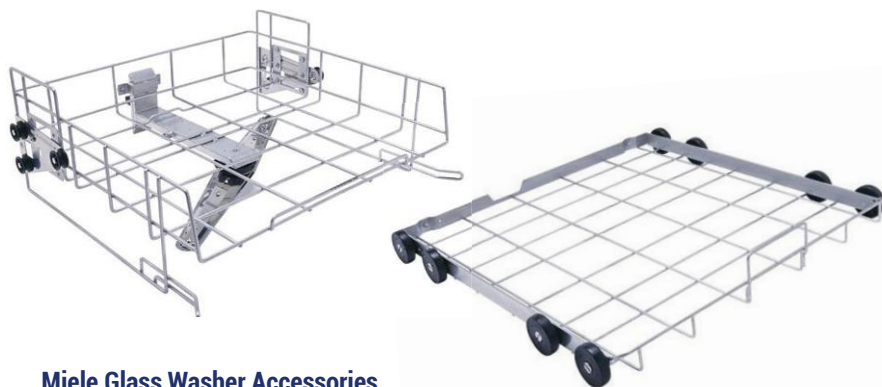
As well as outstanding results, the PG8504 has also been designed with convenience in mind, utilising our patented door salt container, which is incredibly simple to load. The door also integrates a TouchControl display, allowing for a quick and simple selection of 6 different programs, and is built in to the handle for ease. Simple to use controls: 3 programmes. Built in water softener. Connection for external deionised or reverse osmosis water. Powder detergent dispenser. Built in acid neutraliser dispenser. DOS G80/1 Liquid detergent dispenser pump available. Patented water proof leak system. Cat 5, Class A air gap system - can be plumbed directly to mains water supply. WRAS approved. 13 Amp single phase supply - connection to a standard electrical outlet. High capacity wash chamber on two levels.

Modular flexible docking system for internal and external cleaning of all types of glassware. Can be used on both upper and lower carrier. Larger glassware capacity - up to 128 injector nozzles. Baskets available for funnels, beakers and wide necked glassware. Intuitive 3 level display indicating cycle selection, time, date, current wash stage temperature, time remaining. Variable speed pump for improved cleaning and efficiency. Precise monitoring of water intake to ensure correct ration of water vs cleaning agents. Water softener salt dispenser now in door for ease of refill. Options and Accessories-External pump for non-pressurised demineralised water feed. DOS G80/1 dispenser for liquid cleaning agents. Plinth to raise height by 300mm. Commissioning / IQOQ available.

Conversion kits available to convert previous Miele upper and lower baskets to fit the new range. Upper and lower baskets can be fitted with a wide range of inserts to suit individual wash requirements. Please note that this item is delivered direct from our supplier and may have a delivery charge imposed. Please ask at time of ordering. For ordering or information on Baskets please contact customer services at the time of ordering. For installation and services requirement please contact customer services. Does not come with baskets. 12 month warranty.

Code	Description	Price
DWH020013	PG8504 ADP Glass Washer	£5495.95

DESIGNED TO
EXCEL IN
PROFESSIONAL LABORATORIES



Miele Glass Washer Accessories

A range of accessories to fit PG8504 Glass Washers. There are many accessories available for these Glass Washers. If in doubt about the accessories you require, please contact Customer Services for assistance.

Code	Description	Price
DWH020501	A101 - Upper Basket	£368.80
DWH020511	A151 - Lower Basket	£249.99
DWH020530	E 106/1 - Insert for wide neck flasks, measuring cylinders, bottles etc	£179.95
DWH020560	E 110 - Insert for 10 Beakers 250-600ml	£259.95
DWH020580	E 144 - Insert for loading up to 18 beakers	£541.96
DWH020650	E 104/1 - Insert for loading of test tubes up to 12 x 105mm	£292.95
DWH020660	E 105/1 - Insert for loading of test tubes up to 12 x 165mm	£654.95
DWH020690	AK12 - Insert for holding different utensils	£174.95

Miele Glass Washer Connect & Commission

All connections to the mains electricity supply, either 230 volt or 415 volt, will be made with IP44 'commando type plug and socket' (see note 1). All hot and cold water connections are to have control valves with 3/4" BSP male fittings and be within one metre. The deionised water connection is adjacent to the machine within 1.5 metres. The new machine is unboxed and placed in the vicinity of the final position.

Notes: 1. If replacing an existing appliance that has been hard wired it is acceptable (as long as the old lead is of good order) for it to be cut and an IP44 socket to be fitted in line. 2. For DWH 020 012 just a 13 amp socket is required. NB: If the machine has been connected electrically and plumbed in by the customer then commissioning by an engineer is included in the price of the machine.

Code	Description	Price
DWH020700	Connect & Commission	£600.83



Economy Heating Mantle

Heating mantles with electronic temperature regulation are essential pieces of equipment in any lab. Offering quick and homogeneous heating and low energy consumption, these heating mantles: Feature electronic temperature regulation. Can be used for distillation, digestion, evaporation, extraction and boiling. Have an outer frame made of furnace-painted steel and a thermally isolated inner vessel. Feature chromium-nickel heating elements. Include a clamp for supporting rods.

Code	Description	Price
HEM080010	100ml	£126.30
HEM080020	250ml	£145.17
HEM080030	500ml	£146.97

Value
for money

**FEATURES ELECTRONIC
TEMPERATURE
REGULATION**



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Heating Mantle with Temperature Control

These mantles have an energy regulator, which uses a time proportional double pole system to 'ramp' the heater giving stable control and reducing any risk of overheating the liquid. A dial setting allows approximate temperature selection up to 450°C. A soft fibre glass woven mantle provides good impact protection and the close surface contact allows optimum heat transmission to the flask. The elements are insulated from the case by moulded silica powder to give excellent thermal insulation and very low case temperatures. Updated for 2015, these mantles now offer upright control panel making it far easier and quicker to regulate the temperature. Superior design and build gives a more stable base. Integral clamp for a retort stand at rear (available separately).

Code	Description	Price
HEM110011	50ml	£183.40
HEM110021	100ml	£270.17
HEM110031	250ml	£265.09



HM Series Heating Mantles

The HM Electromantle series features a durable, chemically resistant polypropylene outer housing that minimises damage from spills. They allow for maximum heat transfer with minimal risk of flask breakage. Designed with flexibility and ease of use in mind, the HM series Electromantle is a reliable workhorse for your heating applications in the laboratory. Larger capacity products have multiple heating elements, enabling a more even and directed transfer of heat.

Features:

- ✓ Use with round bottom flasks from 50ml to 1 Litre
- ✓ "Cool-to-touch" design
- ✓ Maximum element temperature 450°C
- ✓ Built-in energy regulator
- ✓ Replaceable insulated heater cartridge
- ✓ Indicator lamps for power and heater operation
- ✓ A chemically resistant polypropylene outer casing
- ✓ A grounded earth screen and double fuses for extra safety
- ✓ Supplied with clamps for 1.3cm diameter support rods (but not including support rods)

Code	Description	Price
HEM030010	50ml	£339.10
HEM030020	100ml	£340.59
HEM030030	250ml	£361.60
HEM030040	500ml	£340.04
HEM030050	1000ml	£394.61

**COOL TO THE
TOUCH DESIGN**



Includes
temperature
probe and digital
display

ISG Pro Hotplate & Magnetic Stirrer

This ISG Hotplate stirrer heats to 340° and is widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals and other fields. PID temperature technology controls heating process ensuring that target temperature is reached quickly and control and accuracy is enhanced. Includes temperature probe and digital display.

Code	Description	Price
153-006	135mm Ceramic Coated Stainless Steel Plate	£349.95



**BEST
SELLER**

Hotplate & Magnetic Stirrer – ISG

The ISG® Hotplate and Magnetic stirrer is made of stainless steel with a ceramic to coating resist corrosion. It also has a separated safety circuit which will automatically stop heating when temperature reaches 350 degrees. The variable speed motor is designed to stay at a constant speed even during change in load. High magnetic adhesion ensures that the stirrer bar stays stable at the bottom of the container.

Code	Description	Price
153-005	135mm Stainless Steel Ceramic Coated Plate	£196.33



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Stuart US150 Undergrad Hotplate

Designed with microprocessor-controlled dual thermocouples, these hot plates offer you accurate temperature control and protection from overheating. A colored LED indicator surrounds the heat control knob illuminating the actual surface temperature in real time. The square plate design allows you flexibility of vessel sizes and combinations. Up to four 250ml beakers can easily fit on the surface at the same time. To keep you safe, a "hot" warning light flashes whenever the plate surface temperature is above 50°C and continues to flash until the temperature drops below 50°C, even when unplugged. The units also include BioCote antimicrobial protection which reduces the presence of odor and stain causing microbes such as bacteria, mold, and fungi on the product surface by up to 99.99%. Formulated from silver ion additives, BioCote provides built-in antimicrobial protection to support a more hygienic laboratory environment. All models include an integral fitting for a retort rod and allow the retort base to slide underneath. For convenience and power saving, the units are built with a standard mains switch.

Code	Description	Price
HPL080020	US150 Aluminium Hotplate	£334.96
HPL080040	UC150 Ceramic Hotplate	£351.95

NEW

Ohaus Guardian 3000 Hotplate Stirrer

Heating mantles with electronic OHAUS Guardian 3000™ Hotplate Stirrers are designed for economical heating and stirring in all laboratory settings. The bright LCD display includes easy-to-read temperature and speed settings, intuitive icons and a prominent hot top indicator that lights up when the heater is above 40°C.

Code	Description	Price
GHP00010	102 x 102mm Ceramic Plate	£337.95
GHP00020	178 x 178mm Ceramic Plate	£370.95
GHP00030	135mm Diameter Ceramic Coated Stainless Steel Plate	£364.95



Stuart UC152 Undergrad Analogue Stirring Hotplates

Designed with microprocessor-controlled dual thermocouples, these stirring hot plates offer you accurate temperature control and protection from overheating. The analog models feature a colored LED indicator which surrounds the heat control knob illuminating the actual surface temperature in real time.

Code	Description	Price
MSH020030	150 x 150mm Ceramic Plate	£432.80
MSH080030	150 x 150mm Aluminium Plate	£417.29



Stuart UC152D Undergrad Digital Stirring Hotplate

Designed with microprocessor-controlled dual thermocouples, these stirring hot plates offer you accurate temperature control and protection from over-heating. Actual surface temperature is displayed in real time on an easy-to-read digital screen. Powerful magnets and motor provide you with stirring speeds of up to 2000rpm and mixing capability of up to 15L of liquid. The square plate design allows you flexibility of vessel sizes and combinations. Up to four 250ml beakers can easily fit on the surface at the same time.

Code	Description	Price
MSH020050	150 x 150mm Ceramic Plate	£494.55





Mini Magnetic Stirrers

The mini stirrer has proved to be the UK's number one choice magnetic stirrer where a low cost, compact, robust model is required. At only 120mm square, the mini stirrer occupies very little space on the bench. Easy to use, the mini stirrer can be supplied with a choice of a plastic or metal cover plate. Suitable for capacities up to 1 litre.



Code	Description	Price
MST100010	Plastic Cover	£108.46
MST100020	Stainless Steel Cover	£226.81

Heats up to
1000ml
of water



Mini Stirrer

Rugged OHAUS Mini Hotplates and Stirrers can heat and stir up to 1000ml of water on the 4 x 4 inch. (102 x 102mm) ceramic top plate surface.

Code	Description	Price
HSMNAS4CAL	Auto Stir	£173.56
HSMNST4CAL	Mini Stirrer	£173.56



Stuart UC151 Undergrad Analogue Stirrer

Constructed with powerful magnets and motor, these compact stirrers provide you with stirring speeds of up to 2000rpm and mixing capability of up to 15L of liquid. The square plate design allows you flexibility of vessel sizes and combinations. Up to four 250ml beakers can easily fit on the surface at the same time.

Code	Description	Price
MST080020	Ceramic Plate	£303.56
MST080030	Stainless Steel Plate	£298.31



Magnetic Stirrer Bars

A popular general purpose PTFE coated stirrer for a wide variety of applications.

Code	Description	Price
MFW030060	50mm	£8.43
MFW030050	45mm	£7.54
MFW030020	12mm	£3.21

Ultra-Flat Magnetic Stirrer

The ultra-flat magnetic stirrer is particularly suitable for use in physical/chemical, analysis and biotechnology laboratories. Only 15mm thick. Automatic reverse rotation for better mixing results. High IP protection class: IP65 Set-up plate is made from chemically resistant materials. Slip-proof and stable.

Code	Description	Price
MST200050	Ultra-Flat Magnetic Stirrer	£124.41



Genlab Classic Incubator with Solid Steel Door

The Genlab range of Classic Incubators offers a range of highly efficient, reliable, cost effective units to suit most biological analysis, research and general laboratory applications.

- ✓ Easy clean powder coated body; aluminium coated mild steel chamber
- ✓ Direct reading thermostat
- ✓ Safety overheat thermostat
- ✓ C.E. compliant
- ✓ Full two year warranty

All units have CLAD interior with thermostatic control as standard. The incubators have a solid steel door as standard or as an alternative a door with an integral viewing window can be fitted. Please ask for details about additional options. Please note that this item is delivered direct from our supplier and may have a delivery charge imposed. Please ask at time of ordering.

Code	Description	Price
INC125020	18L, Without Fan, Solid Steel Door	£849.00
INC125030	30L, Without Fan, Solid Steel Door	£899.00
INC125040	40L, Without Fan, Solid Steel Door	£999.00
INC125050	50L, Without Fan, Solid Steel Door	£1,111.00
INC125060	75L, Without Fan, Solid Steel Door	£1,249.00



Genlab Classic Incubator with Viewing Window

The Genlab range of Classic Incubators offers a range of highly efficient, reliable, cost effective units to suit most biological analysis, research and general laboratory applications.

- ✓ Easy clean powder coated body; aluminium coated mild steel chamber
- ✓ Direct reading thermostat
- ✓ Safety overheat thermostat
- ✓ C.E. compliant
- ✓ Full two year warranty

All units have CLAD interior with thermostatic control as standard. The incubators have a solid steel door as standard or as an alternative a door with an integral viewing window can be fitted. Please ask for details about additional options. Please note that this item is delivered direct from our supplier and may have a delivery charge imposed. Please ask at time of ordering.



Code	Description	Price
INC125025	18L, Without Fan, With Viewing Window	£899.00
INC125035	30L, Without Fan, With Viewing Window	£949.00
INC125045	40L, Without Fan, With Viewing Window	£1,049.00
INC125055	50L, Without Fan, With Viewing Window	£1,099.00
INC125065	75L, Without Fan, With Viewing Window	£1,249.00



2 year warranty

Mini Vortex Mixers

OHAUS Mini Vortex Mixer models for gentle to high-speed reliable mixing. Digital model allows input of the exact speed and time to achieve repeatable results every time. Pulsing model features a unique pulse action that reduces heat generation, while providing more effective mixing and cell disruption. Fixed speed model offers simple one-touch, high-speed mixing for repeat applications.

Code	Description	Price
VXMNDG	Digital	£340.93
VXMNFS	Fixed Speed	£171.50
VXMNPS	Pulsing	£500.58



VALUE FOR MONEY

Vortex Mixer - ISG

The ISG® Vortex mixer widely used in life science, physical and chemical analysis fields, for vigorous re-suspension of cells or chemical pellets in tubes up to 50ml. It's features include, touch and continuous operation, variable speed regulation from 0-2500rpm. The ISG® vortex mixer also has specially designed vacuum suction feet to ensure stability of the mixer during use.

Code	Description	Price
153-010	Vortex Mixer	£114.32

For our full range of lab equipment visit

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Affordable. Dependable. Essential



Laboratory Oven

Our general purpose laboratory ovens are reliable, cost-effective and suit most laboratory applications including drying, heating and general use. The exterior cabinets are manufactured from sheet steel finished in powder coat paint for a durable and easy clean finish.

The chamber is made from aluminium coated steel. The plated steel shelves are adjustable on fixed shelf runners. A top vent/access port is fitted and can be used for inserting thermometers and monitoring probes into the chamber. Our ovens are fitted with direct reading calibrated thermostats for both control and overheat safety protection. Indicator lamps include power, heating and safety protection. There is also PID digital controllers with dual display (set and actual) and programmable ramp and dwell controllers.

Code	Description	Price
610-023	10 Litres	£834.95
610-024	30 Litres	£954.95
610-025	50 Litres	£1,145.95
610-026	75 Litres	£1,245.95
610-027	150 Litres	£1,645.95

Powder coated paint
for a durable and
easy clean finish



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**BEST
SELLER**

2 YEAR WARRANTY



Genlab Classic Oven

The Genlab Standard Ovens offer a range of highly efficient, reliable, cost effective units to suit most drying, warming and general laboratory applications.

- ✓ Temperature range 40 to 250°C Fluctuation 0.75°C
- ✓ Easy clean powder coated body
- ✓ Aluminium coated mild steel chamber
- ✓ Direct reading thermostat
- ✓ Safety overheat thermostat
- ✓ Full two year warranty
- ✓ C.E. compliant

Design: The exterior is constructed from sheet steel finished in an easy clean powder coated paint. The interior chamber is made from mild steel coated with aluminium (CLAD) with a stainless steel chamber available as an option. Fitted with fixed shelf runners and removable chrome plated wire grid shelves.

Heating: Heated by Incoloy sheathed elements; positioned below the chamber floor for natural convection units and fitted around the fan on the back wall of the chamber for mechanical convection units.

Controls: The control system comprises of a direct reading thermostat and overheat thermostat both with calibrated scales and tamper proof locks. They also include main switch with indicator and heat and overheat indicators.

Please note that this item is delivered direct from our supplier and may have a delivery charge imposed. Please ask at time of ordering.

Code	Description	Price
OVE010010	6 Litres, Without Fan	£799.00
OVE010020	18 Litres, Without Fan	£849.00
OVE010030	30 Litres, Without Fan	£899.00
OVE010040	40 Litres, Without Fan	£999.00
OVE010050	50 Litres, Without Fan	£1,099.00
OVE010060	75 Litres, Without Fan	£1,249.00

**BEST
SELLER****Cole-Parmer WS-200A-4 Water Still**

Cole-Parmer WS-200A-4 Water Still offers you an unbeatable combination of elegant styling, high purity, versatility and ease of use - designed to ensure problem-free distillation. The latest model. feature an uprated electrical specification and improved safety cut-out devices. Includes wall mounting bracket (for single distilled models only), reservoir water level sensor, hose kit, funnel, and power cord with stripped ends.

NB: No 13amp plug supplied, needs hardwire connection direct to electricity system.

Code	Description	Price
WPU050010	Cole-Parmer WS-200A-4 Water Still	£3539.75

**Cole-Parmer WS-100-4 Water Still**

Cole-Parmer WS-100-4 Water Still combines economy, high performance and a host of features in a way that comparable stills cannot match. Up to 4 litres/hour of distilled water are produced from the horizontal borosilicate glass boiler fitted with a 3kW long life chromium plated heater. Can be either bench or wall mounted. Easily cleaned without dismantling. Includes support stand with two boiler straps, hose kit, gasket kit, and power cord with stripped ends.

NB: No 13 amp plug supplied, needs hardwire connection direct to electricity system.

Code	Description	Price
WPU080010	Cole-Parmer WS-100-4 Water Still	£1166.29

**Cole-Parmer WS-200-4 Water Still**

For the convenience of unattended operation the Distinction is supplied complete with a level control device which clips into the collecting reservoir and will turn off the heater when the reservoir is full. All glass construction, including a silica sheathed heating element, and a highly efficient condenser ensure a top quality cool distillate, ready for immediate use. Cleaning the Distinction is particularly simple. A built in PTFE drainage stopcock and acid funnel allow cleaning without dismantling. Screwthread connectors make hose fitting and removal quick, easy and safe and there are not one, but two thermostats for extra security. Includes reservoir level control, predrilled support stand, hose kit, and power cord with stripped ends.

NB: No 13 amp plug supplied, needs hardwire connection direct to electricity system.

Code	Description	Price
WPU090010	Cole-Parmer WS-200-4 Water Still	£1964.47

Labwater Water Deioniser

These simple, easy-to-use deionisers are suitable for users of 5-10 litres per day of laboratory water for general use such as media preparation. Wall mounted to save bench space. Water available at up to 1 litre per minute. Deionised water quality better than 1 M/cm. No electricity required. Operate on a normal mains water supply & pressure. Deioniser cartridge indicates cartridge exhaustion via a resin colour change window turning from blue (good) to brown (bad) Both models are supplied with an inlet hose adaptor, flow control valve, deioniser cartridge, quick release cartridge fittings, choice of 2 outlet tubes (spout or flexible hose), wall mounting bracket and instructions. Requires a 12mm braided hose (not supplied) to connect the Labwater to a tap or stopcock.

Code	Description	Price
WPU100010	Labwater 1 Water Deioniser System	£582.90
WPU124050	Deioniser Cartridge D340 for WPU100010	£168.86
WPU124060	Deioniser Cartridge D700 for Labwater 2	£253.29

**BEST
SELLER**



LABWARE

ASPIRATORS/BAGS	128	PIPETTES & PIPETTORS	152
BASINS/BATTERIES	129	PUMPS	154
BEAKERS	130	SCOOPS & SIEVES	156
BOTTLES & CONTAINERS	131	SPATULAS	157
BRUSHES	134	STANDS, CLAMPS & BOSSHEADS	158
BURETTES	135	STIRRING RODS	160
BURNERS & ACCESSORIES	137	STOPPERS	161
CLEANING & HYGIENE	139	SWABS	162
CRUCIBLES	140	SYRINGES & NEEDLES	163
CYLINDERS	141	TEST TUBES	164
DESICCATORS	142	TEST TUBE RACKS	166
DRYING	143	THERMOMETERS	167
FILTRATION	144	TIMERS	168
FLASKS	145	TONGS	169
FUNNELS	146	TOOLS	170
HYDROMETERS /JACKS/JUGS	147	TRAYS	172
MAGNIFIERS	148	TRIPODS	173
MASSES	149	TUBING	174
MATS/MEASUREMENT	150	VIALS	175
MORTAR & PESTLE/PETRI DISHES	151		



TOOLS



BOTTLES & CONTAINERS



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Hexagonal Polythene Aspirator with Tap

High density polythene aspirators

- ✓ Robust design, graduated in litres
- ✓ Integrally moulded spout threaded to accept replaceable polypropylene tap
- ✓ Supplied with handle and leakproof polythene caps
- ✓ Tap assembly increases width by 35mm
- ✓ Spare screw on tap available seperately

Code	Description	Price
ASP010010	5 Litres	£13.70
ASP010020	10 Litres	£17.80
ASP010050	Spare Screw on Tap for 5/10 Litre Aspirators	£2.11

Supplied with
screw-in bung



Polyethylene Aspirator with Tap

High density polythene

- ✓ Integrally moulded handle
- ✓ Supplied with screw-in bung to allow use with or without screw-in tap
- ✓ Fitted with polythene leak-proof cap

Code	Description	Price
ASP10030	25 Litres	£26.52
ASP10040	Spare Tap for 25L Aspirator	£4.17



PACK
OF 100

Resealable Polythene Bags with Write On Panel

With write on panels. Other sizes are available, please ask for details.

Code	Description	Price
BAG030010	75 x 80mm	£3.09
BAG030020	89 x 114mm	£2.52
BAG030030	100 x 140mm	£5.25
BAG030040	125 x 190mm	£6.38
BAG030050	150 x 230mm	£7.34
BAG030060	200 x 280mm	£7.29



PACK
OF 1000

Polythene Bags

100 gauge bags.

Code	Description	Price
BAG010010	150 x 100mm	£5.80
BAG010020	200 x 150mm	£11.46
BAG010030	250 x 200mm	£19.08
BAG010040	300 x 250mm	£28.59
BAG010050	375 x 250mm	£35.77
BAG010060	450 x 300mm	£51.46

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Value for money



Unspouted Crystallising Basin

Borosilicate glass crystallising basins with flat bottom, unspouted.

Code	Description	Price
BGS070022	80ml (Pk 10)	£29.32
BGS070032	100ml (Pk 10)	£32.98
BGS070042	130ml (Pk 10)	£39.09
BGS070052	220ml (Pk 10)	£30.82
BGS070062	500ml	£5.11
BGS070071	900ml	£7.40

BEST
SELLER

Porcelain Evaporating Basins

Porcelain evaporating basins with round bottom, spouted.

Code	Description	Price
BPC040010	35ml	£1.00
BPC040020	50ml	£1.10
BPC040030	75ml	£1.30
BPC040040	100ml	£1.68
BPC040050	125ml	£2.19
BPC040060	150ml	£1.96
BPC040070	200ml	£1.99
BPC040080	270ml	£3.28

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Evaporating Basin

Budget range borosilicate glass evaporating basin, flat bottom, with spout. Diameter: 90mm.

Code	Description	Price
BGS090010	90mm Diameter	£3.31



Economical



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Duracell Batteries

The 'classic' copper top high powered Duracell batteries. They have an exceptional shelf life and are leak proof.

Code	Description	Price
BAT010010	MN1300, D Size (2pk)	£3.98
BAT010020	MN2400, AAA Size (4pk)	£3.54
BAT010030	MN1500, AA Size (4pk)	£3.54
BAT010040	MN1400, C Size (2pk)	£3.89
BAT010050	MN1604, Size 9V	£3.89



Zinc Carbon Batteries

High power Zinc Carbon batteries.
NB: Brand supplied may vary.

Code	Description	Price
BAT040040	Size AAA (4pk)	£1.29
BAT040010	Size AA (4pk)	£1.29
BAT040020	Size C (2pk)	£1.29
BAT040030	Size D (2pk)	£1.29
BAT040050	Size 9V	£1.29



Button Cells

Code	Description	Price
BAT050010	LR43 Alkaline (10pk)	£2.21
BAT050020	LR44 Alkaline (10pk)	£2.32
BAT050031	CR2016 Lithium (5pk)	£2.32
BAT050041	CR2025 Lithium (5pk)	£2.27
BAT050051	CR2032 Lithium (5pk)	£2.17



Rechargeable Batteries

Rechargeable Batteries, Nickel-cadmium, rechargeable 1000 times.

Code	Description	Price
BAT080010	RX3, Size AAA (4pk)	£8.95
BAT080020	RX6, Size AA (4pk)	£9.03
BAT080040	RX20, Size D (2pk)	£9.72
BAT080050	RX22, Size 9V (each)	£9.20



Academy Squat Form Beakers

Beakers, Low Form, With Graduation And Spout, Borosilicate Glass.

Code	Description	Price
BEA010010	50ml (12pk)	£8.00
BEA010020	100ml (12pk)	£7.35
BEA010030	250ml (12pk)	£10.03
BEA010040	400ml (12pk)	£16.04
BEA010050	600ml (6pk)	£9.89
BEA010060	800ml (6pk)	£13.24
BEA010070	1 Litre (6pk)	£16.66
BEA010080	2 Litre (4pk)	£31.84

ECONOMICAL



Simax Squat Form Beakers

Manufactured to ISO 3819 from borosilicate 3.3 glass to ISO 3585. Consistent, even wall thickness. Excellent thermal properties. Excellent resistance to chemical attack.

Code	Description	Price
BEA140002	10ml (10pk)	£28.09
BEA140010	50ml (10pk)	£15.92
BEA140020	100ml (10pk)	£14.74
BEA140025	150ml (10pk)	£23.48
BEA140030	250ml (10pk)	£15.97
BEA140040	400ml (10pk)	£19.91
BEA140050	600ml (10pk)	£25.22
BEA140060	1 Litre (10pk)	£41.82
BEA140070	2 Litre (4pk)	£31.19

Manufactured to ISO:3819



Squat Form Beakers

Borosilicate glass.

Code	Description	Price
BEA020011	25ml (10 pk)	£9.20
BEA020021	50ml (10 pk)	£10.34
BEA020031	100ml (10 pk)	£9.65
BEA020041	250ml (10 pk)	£12.49
BEA020051	400ml (10 pk)	£19.98
BEA020061	600ml (10 pk)	£21.38
BEA020071	1 Litre	£3.98
BEA020081	2 Litre	£5.75



Heavy Duty Squat Form Beakers

Economy borosilicate glass with reinforced rim and thick walls.

Code	Description	Price
BEA100010	250ml	£2.91
BEA100020	400ml	£6.34
BEA100030	600ml	£5.38
BEA100040	1 Litre	£7.54
BEA100050	2 Litre	£14.51



Simax Tall Form Beakers

Tall Form Beakers, Borosilicate glass.

Code	Description	Price
BEA030010	50ml (10pk)	£17.25
BEA030020	100ml (10pk)	£21.14
BEA030030	250ml (10pk)	£23.89
BEA030040	400ml (10pk)	£26.55
BEA030050	600ml (10pk)	£34.53
BEA030060	800ml (10pk)	£39.83
BEA030070	1 Litre	£5.29
BEA030080	2 Litre	£13.45

Polypropylene Beakers

Polypropylene, giving very high translucency. Autoclavable to 121°C for 20 mins, continuous work at 100°C.

Code	Description	Price
BEP100010	25ml (10pk)	£15.13
BEP100020	50ml (10pk)	£14.63
BEP100030	100ml (10pk)	£19.04
BEP100040	250ml (10pk)	£21.93
BEP100050	500ml (5pk)	£17.67
BEP100060	1 Litre	£7.35
BEP100070	2 Litre	£10.35



Set of 5 Polypropylene Beakers

A range of polypropylene beakers having excellent clarity and very good chemical resistance. The products are autoclavable up to 130°C, have raised graduations on the outer surface and an excellent easy-pour tapered spout. Includes 50ml, 100ml, 250ml, 500ml and 1 litre beakers.

Code	Description	Price
BEP200061N	50ml, 100ml, 250ml, 500ml, 1 Litre	£4.59



Easy pour for students



Simax Reagent Bottles

Borosilicate glass with blue screw cap and pouring ring.

Code	Description	Price
BRE060020	100ml (5pk)	£11.69
BRE060030	250ml (5pk)	£12.64
BRE060040	500ml (2pk)	£6.02
BRE060050	1 Litre (2pk)	£8.58
BRE060060	2 Litre (2pk)	£21.18

Polystop NM Reagent Bottles

Narrow mouth reagent bottles with Polystop stoppers.

Code	Description	Price
BRE010010	30ml (5pk)	£18.46
BRE010020	50ml (5pk)	£19.21
BRE010030	100ml (5pk)	£23.13
BRE010040	250ml (5pk)	£26.59
BRE010050	500ml (2pk)	£13.55
BRE010060	1 Litre (2pk)	£19.94



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Amber Polystop NM Reagent Bottles

Narrow mouth reagent bottles with Polystop stoppers.

Code	Description	Price
BRE040010	50ml (5pk)	£34.65
BRE040020	100ml (5pk)	£38.77
BRE040030	250ml (5pk)	£39.95
BRE040040	500ml (2pk)	£25.39
BRE040050	1 Litre (2pk)	£33.32



Amber Polystop Dropping Bottles

Amber Polystop Dropping Bottles.

Code	Description	Price
BDP060010	50ml	£7.14
BDP060020	100ml	£10.45



Clear Polystop Dropping Bottles

Clear Polystop Dropping Bottles.

Code	Description	Price
BDP050010	30ml	£50.78
BDP050020	50ml	£49.05
BDP050030	100ml	£58.13

PACK
OF 10



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Clear Reagent Bottles with Stopper

Clear glass bottle complete with stopper.

Code	Description	Price
BRE230036	250ml	£48.90
BRE230046	500ml	£68.04
BRE230056	1 Litre	£89.95

PACK
OF 10





PACK
OF 10

Dropping Bottles

Soda-Lime Glass. Choice of clear or amber.

Code	Description	Price
BDP200010	Clear, 30ml	£27.50
BDP200020	Clear, 50ml	£31.02
BDP200030	Clear, 100ml	£34.87
BDP200040	Amber, 50ml	£33.62
BDP200050	Amber, 100ml	£37.35

Soda-Lime Glass



Amber NM Bscap Winchester Bottles

Type III Soda Lime Glass. Black urea plastic screw caps with PVDC faced woodpulp liner.

Code	Description	Price
BGL071010	30ml (40pk)	£24.41
BGL071020	100ml (20pk)	£24.41
BGL071030	150ml (20pk)	£25.64
BGL071050	500ml (10pk)	£16.83
BGL071060	1 Litre (10pk)	£30.88
BGL071070	2.5 Litre (12pk)	£73.39



Polystop Interchangeable Bottle Stoppers

Polystop Interchangeable Bottle Stoppers.

Code	Description	Price
BRE010501	B10/19	£1.42
BRE010531	B16/16	£1.88
BRE010541	B24/29	£1.01



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Wide Mouth Glass Bottles

Powder type bottles. Type III Soda Lime Glass.
Black urea plastic screw caps with PVDC faced woodpulp liner.

Code	Description	Price
BGL010010	15ml (40pk)	£25.53
BGL010020	30ml (40pk)	£24.43
BGL010030	60ml (40pk)	£60.57
BGL010040	125ml (40pk)	£30.84
BGL010050	250ml (20pk)	£20.63
BGL010060	500ml (20pk)	£33.11

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happy to help, call on:
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*Extra wide mouth
with screw cap*

Extra Wide Mouth Glass Bottles

Powder type with screw cap and extra wide mouth.
Made from clear glass.

Code	Description	Price
BGL030010	30ml (20pk)	£13.83
BGL030020	60ml (20pk)	£18.96
BGL030030	120ml (20pk)	£21.71
BGL030040	250ml (10pk)	£18.96



PE Oval Wash Bottles

General purpose oval wash bottles.

Code	Description	Price
BWS050010	250ml	£11.01
BWS050020	400ml	£13.70

**BEST
SELLER**

Perfect for
students

Performance Plastic Wash Bottles

- ✓ 500ml wash bottle made of low density polyethylene (LDPE)
- ✓ Features a wide mouth for easy filling and a red color-coded screw cap for easy identification

Code	Description	Price
BOT850040	Acetone, 500ml	£2.47
BOT850060	Distilled Water, 500ml	£2.47
BOT850080	Isopropanol, 500ml	£2.27
BOT850100	Ethanol, 500ml	£2.27
BOT850120	Sodium Hypochlorite, 500ml	£2.37



Polypropylene Blue Cap Containers

Container 60ml Polypropylene blue lid s/c no label. 600 pack.
Container 60ml Polypropylene blue lid s/c with label. 600 pack.

Code	Description	Price
DCN710030	60ml without label	£81.40
DCN710040	60ml with label	£79.08



**EASY TO CONTROL
SQUEEZE FOR
DISPENSING**

Chemical Wash Bottles

- ✓ Unlabeled chemical wash bottle
- ✓ Wide Mouth for easy filling
- ✓ Self venting design to eliminate leaks & dripping
- ✓ Easy to control squeeze for dispensing
- ✓ Made of low density polyethylene (LDPE)

Code	Description	Price
BOT850000	250ml	£1.75
BOT850020	500ml	£2.47
BOT850140	1 Litre	£3.30



Polystyrene Containers

Container 60ml Polystyrene (PS) plastic s/c no label 600 pack.
These are to help protect your hands from hot plates, ovens, baking trays and pans.

Code	Description	Price
DCN710010	60ml	£98.96
DCN710020	60ml	£106.33



Autoclavable

Polypropylene Specimen Containers

Polypropylene autoclavable specimen containers in 125ml or 500ml.

Code	Description	Price
DCN060036	125ml (12pk)	£7.64
DCN060056	500ml (6pk)	£9.67



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*Economical***PACK
OF 10**

Fan Shape Test Tube Brush

This semi-stiff fiber bristle brush is perfect for scrubbing narrow glassware, including test tubes, measuring cylinders, beakers and more. The fanned end allows you to easily clean rounded surfaces and corners. The stainless steel, twisted handle is semi-flexible, allowing you to modify the shape as needed. Looped end for easy hanging. Designed for professional science laboratories but is perfect for a variety of applications in the home or garage.

Code	Description	Price
CH0204A	Bristle, 10-12mm	£4.88
CH0204B	Bristle, 16-25mm	£4.83
CH0204D	Nylon, 16-25mm	£4.58

**EASY TO USE**

Bristle Flask Brush

For round bottom flask upto 100 mm dia. on stainless steel wire handle. Bristle, for round bottom flask upto 100 mm dia. on stainless steel wire handle. Overall length 330 mm, weight 34g.

Code	Description	Price
CH0216A	Bristle 100mm Flask Brush	£7.65

**PACK
OF 10**

Bristle Beaker Brush

Nylon beaker brushes with wooden handle.

Code	Description	Price
BRU010010	Pack of 5 Nylon Brushes	£9.58

**PACK
OF 5****NEW***Available in
various sizes***PACK
OF 10**

Nylon Bottle Brushes

Nylon bottle brushes available in various sizes.

Code	Description	Price
BRU020010	Nylon Bottle Brushes, 40x50mm	£12.94
BRU020020	Nylon Bottle Brushes, 45x67mm	£13.89
BRU020030	Nylon Bottle Brushes, 50x75mm	£14.62
BRU020040	Nylon Bottle Brushes, 67x100mm	£15.56
BRU020050	Nylon Bottle Brushes, 70x150mm	£22.75





Leakproof PTFE
plunger stopcock

Acrylic Burettes

With transparent acrylic body and leakproof PTFE plunger stopcock. Acrylic body is unaffected by dilute minerals acids & bases except hydrofluoric acid and ammonium hydroxide. Capacity 25ml Sub. Div. -0.10ml Tolerance \pm -0.10ml.

Code	Description	Price
704-047	25ml x 0.1ml	£9.96
704-048	50ml x 0.1ml	£11.83

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**SUITABLE FOR HIGH SCHOOL
OR COLLEGE STUDENTS
OR AGES 14 TO 21**

Glass Burette with PTFE Stopcock

- ✓ Burette for laboratory use
- ✓ Glass for durability
- ✓ 50ml capacity with 0.10ml graduation
- ✓ Suitable for high school or college students, or ages 14 to 21

Code	Description	Price
11780A	50ml x 0.10ml	£13.18



BS EN ISO.385:2005

Single Bore Glass Burettes

Code	Description	Price
BUR040020	25 x 0.1ml	£14.65
BUR040030	50 x 0.1ml	£14.47



Expert Advice

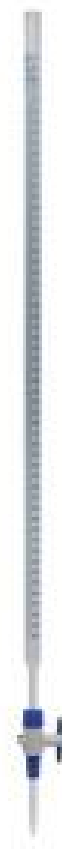
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BS 846 STANDARD

Glass Burette with PTFE Stopcock

Graduated burettes with interchangeable PTFE stopcock to BS 846.

Code	Description	Price
BUR010060	50ml x 0.1ml	£18.13



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Glassco Glass Burette with PTFE Stopcock

Glassco glass burette with PTFE removable stopcock to BS 846.

Code	Description	Price
BUR020020	50ml x 0.1ml	£21.18

**BEST
SELLER**

For use with 12mm
diameter rods.

**PACK
OF 3**

Burette Clamps

Plastic, spring type one piece.
For use with 12mm diameter rods.

Code	Description	Price
BHR030010	Pack of 3 Burette Clamps	£8.06



Burette Clip

For supporting 25mm or 50mm burettes. The clamp is made with two plastic coated spring clips mounted 50mm apart on a stainless steel plate and a rod 150 x 8mm diameter.

Code	Description	Price
BHR050010	Burette Clip	£8.85



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**HIGH QUALITY
SET**

Pipette & Burette Rinsers

These high quality and high speed rinsers solve the problem of washing pipettes up to 600mm and Mohr burettes quickly and safely. The polyethylene rinser fills via the spray nozzle situated on the top rim. Contaminated water syphons out totally once the syphon point at the top of the rinser has been reached via the large diameter drain situated at the lowest point, before refilling automatically. During washing, the pipettes/burettes are housed in baskets specifically designed to minimise breakages. Since soaking can take the longest time when washing, two or three baskets of pipettes/burettes can be soaking in their jars whilst another basketful is being washed in the rinser. NB: You will require 2x Extension Handles (PRA 054 030). Please Note: Tubing/Hose is not supplied.

Code	Description	Price
PRA050010	Burette Rinsers	£191.90

Economy Burette Stand

- ✓ Burette rack made of seasoned hardwood - Stands 19.5" tall with single arm to hold a burette
- ✓ Available in single or double
- ✓ Smallest allowable diameter burette or tube is 10mm diameter
- ✓ Black nylon thumb screws

Code	Description	Price
STA130010	Single	£16.98
STA130020	Double	£10.62



GREAT VALUE



Round Base Bunsen Burners

Nickel plated burner tube with rotatable air regulator and cylindrical connector. Mounted on pressure die cast base. Base dia: 80mm.

Code	Description	Price
BRN240010	Natural Gas, 11mm Tube Diameter	£8.79
BRN240020	Natural Gas, 13mm Tube Diameter	£6.88
BRN240030	LPG, 11mm Tube Diameter	£6.75
BRN240040	LPG, 13mm Tube Diameter	£8.45



BEST SELLER



Square Base Bunsen Burners

Nickel plated brass tube, with rotatable air regulator, fitted with flame stabiliser and mounted on die-cast, non-tipping, square base.

Code	Description	Price
BRN250010	Natural Gas, 11mm Tube Diameter	£9.57
BRN250020	Natural Gas, 13mm Tube Diameter	£9.00
BRN250040	LPG, 13mm Tube Diameter	£9.57

Chemical resistant base

Natural Gas Bunsen Burners

All burners are constructed utilising a heavy pressure diecast base painted in a blue chemically resistant acrylic finish.

Code	Description	Price
BRN010010	Natural Gas, 11mm Tube Diameter	£13.23
BRN010020	Natural Gas, 13mm Tube Diameter	£14.20



Bottled Gas Bunsen Burners

These gases generally achieve temperatures slightly lower than those achieved with natural gas, the range being 850 to 950°C.

Code	Description	Price
BRN010030	Bottled Gas, 11mm Tube Diameter	£13.23
BRN010040	Bottled Gas, 13mm Tube Diameter	£14.20



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Spirit Burner

Glass spirit burner with screw in metal wick holder. 100ml capacity. Spare wick available separately.

Code	Description	Price
BRN070020	100ml Metal Spirit Burner	£3.72
BRN070500	1 Meter Spare Wick	£2.32





Refillable Gas Burner

Code	Description	Price
BRN080010	Refillable Gas Burner	£60.00



Safety Matches

Safety matches also available in giant size.

Code	Description	Price
CMZ040010	Safety Matches, Pack of 10	£1.15
CMZ040020	Giant Safety Matches, Pack of 6	£7.18



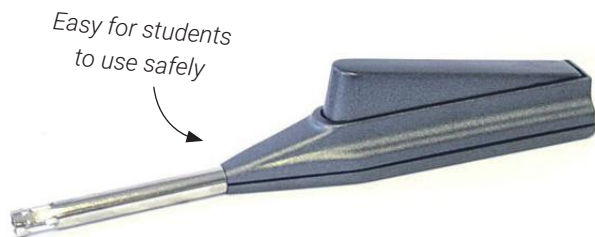
Cartridge Burner

Designed for use with butane/propane mix gas cartridges. This burner can achieve temperatures in excess of 1000°C. The design of the gas cartridge enables the burner to be detached and re-attached as often as needed making it easily stored and transported.

Code	Description	Price
BRN150010	Complete Burner Cartridge	£57.55
BRN150020	Gas Burner/Tap	£47.12
BRN150500	Spare Cartridge for BRN150010	£10.42

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SciChem.com



Gas Lighter

This self-contained electric generator requires no batteries, fuel or flints.

Code	Description	Price
BRN060025	Gas Lighter	£16.75



Wood Splints

The Edulab wooden splints are all you need in the laboratory for lighting bunsen burners or testing for oxygen, or for running the good old 'squeaky pop test'! The splints are supplied in bundles of approximately 1000 splints.

Code	Description	Price
EDU740	Pack of 1000 Wood Splints	£3.85



**AN EASY-TO-USE
WIDE SPECTRUM
DISINFECTANT**

Virkon Virucidal Disinfectant

An easy-to-use wide spectrum disinfectant which has been proven, in independent tests, to be effective against all 17 virus families affecting man and animals, including AIDS (HIV) and Hepatitis B.

Code	Description	Price
CLN140020	500g	£44.53
CLN140030	5kg	£209.95
CLN140011	Sachets	£2.61



**BEST
SELLER**



Decon 90

For the safe and total cleaning and/or decontamination of glassware, ceramics, plastics (NOT polycarbonate), rubbers, stainless steel and ferrous metals.

Code	Description	Price
CLN010010	1 Litre	£22.15
CLN010020	5 Litres	£50.95
CLN010030	20 Litres	£189.50



Decomatic Cleaner

A liquid surface active cleaning agent / decontaminant, specially formulated for use in automatic glassware washing machines, for laboratory applications.

Code	Description	Price
CLN030010	5 Litres	£43.94
CLN030020	10 Litres	£59.15



Award Winning!

**PACK
OF 28**

Milton Sterilising Tablets

An essential sterilising tablet for protective eyewear and equipment. Kills 99.9% of germs including bacteria, fungi and viruses.

Code	Description	Price
850-541	Pack of 28	£3.35



**Scan here and
shop online now
SciChem.com**



Milton Sterilising Fluid

An essential sterilising fluid for protective eyewear and equipment. Kills 99.9% of germs including bacteria, fungi and viruses.

Code	Description	Price
850-538	500ml	£3.23
850-539	1 Litre	£4.37
850-540	5 Litres	£11.92



Porcelain Crucibles with Lids

Squat form porcelain crucibles with lids.

Code	Description	Price
CRP010011	15ml	£13.93
CRP010021	25ml (pk 12)	£15.15
CRP010031	50ml	£20.29

PACK
OF 10



Tall Form Porcelain Crucibles with Lids

Tall form porcelain crucibles with lids.

Code	Description	Price
CRP020011	15ml (pk 12)	£10.78
CRP020021	25ml	£14.65
CRP020031	30ml	£14.65
CRP020041	50ml	£14.65
CRP020051	100ml	£48.84

PACK
OF 10

ISO:1772



Low Form Porcelain Crucibles

Crucible, Low Form, Porcelain to ISO 1772.

Code	Description	Price
CRP030030	17ml	£27.30
CRP030040	21ml	£31.65

PACK
OF 10



ISO:1772

Medium Form Porcelain Crucibles

Crucible, Medium Form, Porcelain.

Code	Description	Price
CRP040020	20ml	£31.96
CRP040040	45ml	£43.22
CRP040060	120ml	£63.68

PACK
OF 10



PACK
OF 10

Tall Form Porcelain Crucibles

Crucible, Tall Form, Porcelain.

Code	Description	Price
CRP050010	15ml	£40.91
CRP050040	50ml	£54.73



Porcelain Crucible Lids

Porcelain crucible lids.

Code	Description	Price
CRP060030	40mm Diameter	£23.96
CRP060040	45mm Diameter	£29.57

PACK
OF 10

Round Base Glass Measuring Cylinder

Graduated borosilicate glass cylinder with spout, tall form with rounded base. Blue graduations. Class B.

Code	Description	Price
CY0402	10ml	£1.67
CY0403	25ml	£1.80
CY0404	50ml	£1.94
CY0405	100ml	£2.33
CY0406	250ml	£3.19
CY0407	500ml	£4.70
CY0408	1 Litre	£8.25
CY0409	2 Litre	£17.37



Academy Hexagonal Base Glass Cylinders

Measuring cylinder, hexagonal base, borosilicate glass.

Code	Description	Price
CYG130011	10ml	£1.63
CYG130021	25ml	£2.04
CYG130031	50ml	£2.19
CYG130041	100ml	£2.66
CYG130051	250ml	£5.00
CYG130061	500ml	£7.26
CYG130071	1 Litre	£8.88
CYG130081	2 Litre	£26.65



Economical
for student use

Simax Measuring Cylinder with Plastic Stopper

Simax Measuring Cylinder, Class B, Plastic Stopper, White Graduations, Borosilicate 3.3, ISO 4788.

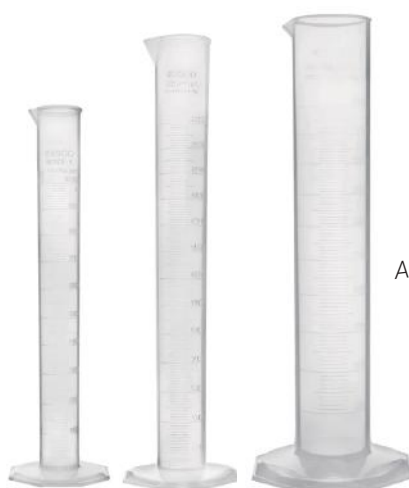
Code	Description	Price
CYG040020	10ml	£6.64
CYG040030	25ml	£9.77
CYG040040	50ml	£10.75
CYG040050	100ml	£10.93
CYG040060	250ml	£15.98
CYG040070	500ml	£24.21
CYG040080	1 Litre	£34.43
CYG040090	2 Litre	£55.37



Tall Form Polypropylene Measuring Cylinders

Conform to ISO 6706 - 1981 (E) and BS 5404 Part 2 1977. Special polypropylene giving very high translucency.

Code	Description	Price
CYP010010	10ml (pk 10)	£34.24
CYP010020	25ml (pk 5)	£20.54
CYP010030	50ml (pk 5)	£20.40
CYP010040	100ml (pk 5)	£23.42
CYP010050	250ml	£5.79
CYP010060	500ml	£8.70
CYP010070	1 Litre	£14.63
CYP010080	2 Litres	£27.75



Autoclavable

Polypropylene Measuring Cylinders

Measuring cylinder made of premium quality, US sourced polypropylene plastic. Class B tolerance.

Code	Description	Price
616-027	100ml	£0.70
616-028	250ml	£1.30
616-029	500ml	£2.70

Expert Advice

Our experts are always happy to help, call on: **01902 402 402**

SET
OF 5

Set of 5 Polypropylene Measuring Cylinders

A range of polypropylene measuring cylinders having excellent clarity and good chemical resistance.

Code	Description	Price
616-024	Set of 5	£16.44





Glass Desiccator with Knob Lid

Acadamy desiccator with knob lid and porcelain disc.

Code	Description	Price
DES010021	150mm Inner Diameter	£21.68
DES010031	210mm Inner Diameter	£36.24
DES010051	300mm Inner Diameter	£92.66



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Glass Desiccator with Stopcock

Borosilicate Glass Desiccator with Stopcock.
200ml. Vacuum pattern complete with stopcock.

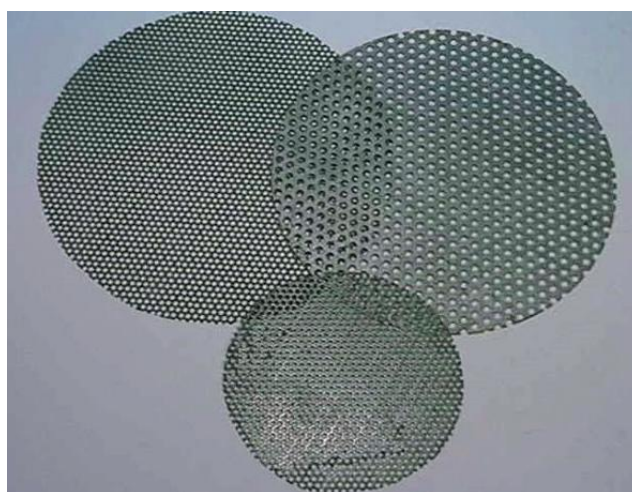
Code	Description	Price
DES020020	200mm	£149.41



Perforated Desiccator Discs

Perforated Desiccator Discs for 200mm Desiccators-Zinc.

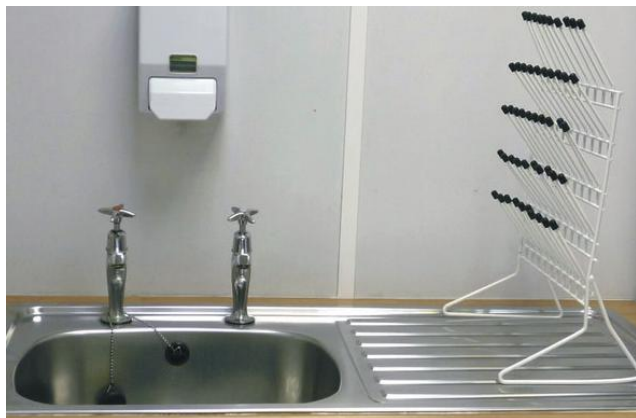
Code	Description	Price
DES040030	200mm	£9.42



Plastic PP/PC Desiccator

Desiccator PP/PC 250mm.

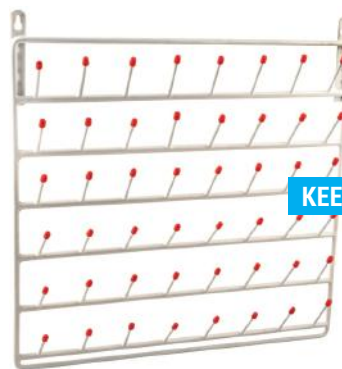
Code	Description	Price
DES030030	250mm	£126.24



Draining Rack

For drying test tubes, PVC coated.

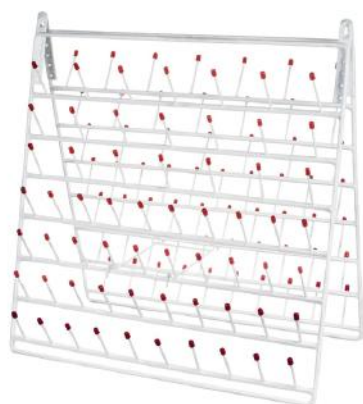
Code	Description	Price
704-002	Draining Rack	£43.58



Wall Mounted Draining Rack

This sturdy, 20x20 inch wall mounted laboratory drying rack contains 48 test tube pins. Each pin is 2.75 inches long and pegs are 3 inches apart. The rack is vinyl coated steel and each peg features a rubber cap to prevent damage and scratches to glassware.

Code	Description	Price
DRN040011	Wall Mounted Draining Rack, 48 Pegs	£31.39



Dual Panel Draining Rack

Free standing or can be used as two wall mounted racks. Total 122 pegs. Size 56 x 58 x 33 cm. 8 rows x 10 pegs (4 rows each side). 6 rows x 7 pegs (rows each side).

Code	Description	Price
DRN040021	Dual Panel Draining Rack, 122 Pegs	£60.46

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Non-Insulated Drying/Warming Cabinet

The GENLAB Drying/Warming cabinets are suitable for drying a range of items such as glassware and instruments and any general purpose warming applications.

- ✓ Maximum temperature 50°C above ambient
- ✓ Easy clean powder coated body
- ✓ Thermostat control
- ✓ Toughened glass doors

Code	Description	Price
DRY010010	125 Litres	£969.00
DRY010020	250 Litres	£1,400.00



Insulated Drying/Warming Cabinet

The GENLAB Drying/Warming cabinets are suitable for drying a range of items such as glassware and instruments and any general purpose warming applications.

- ✓ Maximum temperature 50°C above ambient
- ✓ Easy clean powder coated body
- ✓ Thermostat control
- ✓ Toughened glass doors

Code	Description	Price
DRY015010	100 Litres	£1,325.00
DRY015020	200 Litres	£1,885.00

PACK
OF 100

Medium retention
& flow rate



General Purpose Filter Paper

A good quality paper for general purpose use with medium retention and flowrate. 100 Circles/pack.

Code	Description	Price
FLP090	90mm Diameter	£2.10
FLP110	110mm Diameter	£2.30
FLP125	125mm Diameter	£2.80
FLP150	150mm Diameter	£5.54

PACK
OF 500



Medium Rate Filter Papers

Popular medium flow rate paper, excellent wet strength properties. Ideal for general chemical filtration. Filter speed per 100ml 135 seconds. 500pk

Code	Description	Price
FTE040010	Grade A, 7.0cm	£8.80
FTE040020	Grade A, 9.0cm	£10.66
FTE040030	Grade A, 11.0cm	£13.69
FTE040040	Grade A, 12.5cm	£6.64
FTE040050	Grade A, 15.0cm	£8.29
FTE040060	Grade A, 18.5cm	£7.20

GOOD VALUE



High Rate Filter Papers

General purpose filter paper, high wet strength, fast filter rate. Suitable for coarse filtration only. Filter speed per 100ml 23 secs. Retention 14µm. Wet burst 41kPa. Packed in boxes of 100 circles.

Code	Description	Price
FTE010010	Grade H, 5.5cm	£9.50
FTE010020	Grade H, 7.0cm	£8.95
FTE010030	Grade H, 9.0cm	£8.94
FTE010040	Grade H, 11.0cm	£12.70
FTE010050	Grade H, 12.5cm	£6.33
FTE010060	Grade H, 15.0cm	£9.50
FTE010070	Grade H, 18.5cm	£5.65
FTE010080	Grade H, 24.0cm	£11.53



Medium retention
& flow rate

PACK
OF 100

Grade 1 Qualitative Filter Papers

Medium retention & flow rate filter for routine lab applications. Thickness: 11µm. 100pk.

Code	Description	Price
FTP030010	No 1, 4.25cm	£6.90
FTP030020	No 1, 5.5cm	£6.90
FTP030030	No 1, 7.0cm	£7.51
FTP030040	No 1, 9.0cm	£10.19
FTP030050	No 1, 11.0cm	£11.05
FTP030060	No 1, 12.5cm	£11.34
FTP030070	No 1, 15.0cm	£18.55
FTP030080	No 1, 18.5cm	£27.65



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Conical Narrow Neck Glass Flask

A conical, borosilicate glass Erlenmeyer flask with a narrow neck. Class B.

Code	Description	Price
FL0702	50ml	£1.12
FL0703	100ml	£1.24
FL0705	250ml	£1.86
FL0707	500ml	£2.11
FL0708	1 Litre	£3.65



VALUE FOR MONEY

Academy Conical Flasks

Conical flask, narrow neck, borosilicate glass.

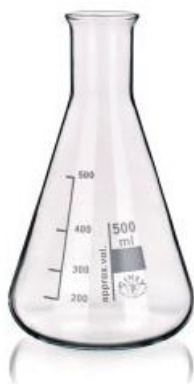
Code	Description	Price
FCN020012	50ml	£15.23
FCN020022	100ml	£15.65
FCN020032	250ml	£17.38
FCN020042	500ml	£12.52
FCN020052	1 Litre	£27.02



Simax Narrow Neck Conical Flasks

Simax Flask, Erlenmeyer, Narrow Neck, Borosilicate 3.3, ISO 1773.

Code	Description	Price
FCN030010	25ml (10pk)	£48.01
FCN030020	50ml (10pk)	£39.20
FCN030030N	100ml (10pk)	£19.22
FCN030040	250ml (10pk)	£20.85
FCN030050	500ml (10pk)	£32.88
FCN030060	1 Litre (10pk)	£69.14



Filter Flask with Glass Side Hose Connection

Academy Filter Flask With Glass Side Hose Connection, Borosilicate Glass.

Code	Description	Price
FLF040010	250ml	£7.95
FLF040020	500ml	£11.43
FLF040030	1 Litre	£14.90



Volumetric Flask with Polypropylene Stopper

Borosilicate glass with one graduation mark. Fitted with chemical resistant polypropylene stopper. As per DIN ISO 1042 standard. Blue graduation. Cap.

Code	Description	Price
FL2605	100ml	£4.21
FL2607	250ml	£6.10
FL2608	500ml	£7.26
FL2609	1 Litre	£10.99
FL2610	2 Litre	£21.37

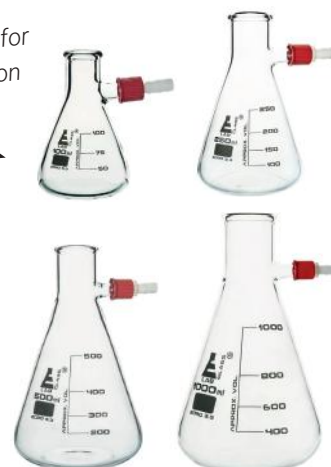


Filter Flask with Plastic Side Arm

Filtering conical flask made of high quality Borosilicate glass with an integral plastic side arm.

Code	Description	Price
700-006	100ml	£4.43
700-007	250ml	£6.04
700-008	500ml	£7.64
700-009	1 Litre	£12.22

Conical shape for spill prevention



Polypropylene Volumetric Flasks with Cap

Calibrated gravimetrically at 20°C to Class B standards. Stoppers included. Translucency of polypropylene enhanced when in contact with liquids.

Code	Description	Price
FVP060030	100ml	£11.54
FVP060040	250ml	£13.13
FVP060050	500ml	£14.96
FVP060060	1 Litre	£18.67



PMP Volumetric Flask with Cap

Individually calibrated gravimetrically at 20°C to Class B standards. Stoppers included.

Code	Description	Price
FVP050020	100ml	£17.98
FVP050030	250ml	£24.46
FVP050040	500ml	£25.75
FVP050050	1 Litre	£34.48



Polypropylene Filter Funnel

Industrial quality filter funnel made of polyethylene plastic. Excellent for separating solids from liquids, as well as for easier transfers of liquids to narrow mouthed containers.

Code	Description	Price
616-015	95mm Diameter	£1.56
616-020	75mm Diameter	£3.61
616-022	5 x 75mm, 5 x 95mm	£4.58



Polypropylene Powder Funnels

Polypropylene Powder Funnels, 60mm, 60° angle, autoclavable funnels. Large bore avoids bridging of powders during transfer.

Code	Description	Price
FFP060010	60mm Diameter	£10.23
FFP060020	80mm Diameter	£21.54
FFP060030	100mm Diameter	£22.55
FFP060040	120mm Diameter	£5.60
FFP060050	150mm Diameter	£5.44
FFP060060	180mm Diameter	£6.79



Polypropylene Buchner Funnels

Robust, lightweight and inexpensive. Unbreakable and resistant to corrosion and heat (max 120°C). Two piece construction.

Code	Description	Price
FFP070010	45mm	£12.22
FFP070020	55mm	£13.72
FFP070030	70mm	£13.18
FFP070040	90mm	£18.91



**BEST
SELLER**

Porcelain Buchner Funnels

Buchner Funnels, Porcelain.

Code	Description	Price
FPF020010	48mm	£15.26
FPF020020	62mm	£17.92
FPF020030	77mm	£21.39
FPF020040	97mm	£30.40



Open Top Dropping Funnels

Dropping Funnel, Cylindrical, PTFE Stopcock, Open, Borosilicate Glass.

Code	Description	Price
FDC010010	25ml	£22.56
FDC010020	50ml	£19.46
FDC010030	100ml	£22.16



Separating Funnel with Glass Stopcock

Cylindrical dropping funnel with glass stopcock. Made from Borosilicate 3.3 glass.

Code	Description	Price
FDC020010	50ml	£24.91
FDC020030	250ml	£24.73



Separating Funnel with PTFE Stopcock

Cylindrical Separating Funnels with PTFE Stopcock, Borosilicate Glass.

Code	Description	Price
FDC030010	50ml	£36.94
FDC030020	100ml	£43.37
FDC030030	250ml	£36.33
FDC030040	500ml	£57.55
FDC030050	1 Litre	£72.11



Separating Funnel with Glass Stopcock

Squibb shape separatory funnel made from Borosilicate glass with glass key and PE stopper.

Complies with ISO 4800 Standards.

Code	Description	Price
FDC040010	50ml	£16.37
FDC040020	100ml	£17.41
FDC040030	250ml	£20.13
FDC040040	500ml	£28.44
FDC040050	1 Litre	£43.26



Separating Funnel with PTFE Stopcock

Squibb shape separatory funnel made from Borosilicate glass with PTFE key and PE stopper.

Complies with ISO 4800 Standards.

Code	Description	Price
FDC050010	50ml	£16.59
FDC050020	100ml	£18.32
FDC050030	250ml	£20.69
FDC050040	500ml	£30.79
FDC050050	1 Litre	£39.30





General Purpose Hydrometers

Calibrated for use at 15.6°C (60°F).

Code	Description	Price
HYD020030	1000-1500	£15.66
HYD020060	700-2000	£15.66

Wide range

LAB ESSENTIAL

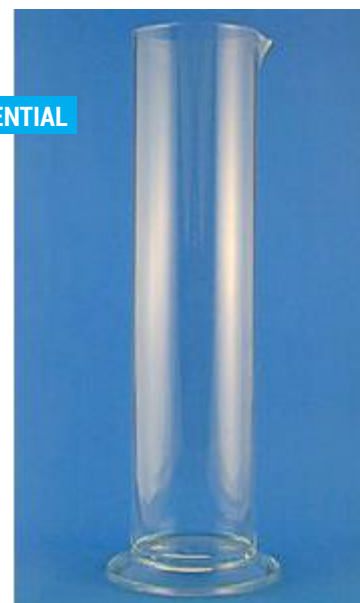
Hydrometer Jars

Manufactured in borosilicate or soda glass.

Code	Description	Price
HYD090010	200x38mm	£25.31
HYD090030	250x50mm	£26.99
HYD090040	300x50mm	£46.54

Expert Advice

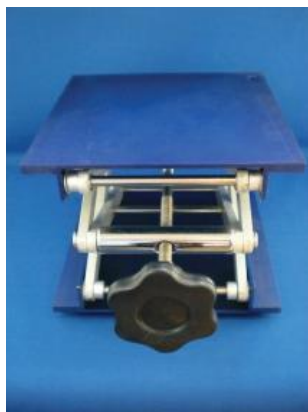
Our experts are always happy to help, call on: **01902 402 402**



Laboratory Jacks

Aluminium laboratory jacks.

Code	Description	Price
JAK010010	100x100mm	£22.98
JAK010020	150x150mm	£40.23
JAK010030	200x200mm	£69.29



Polypropylene Measuring Jug with Handle

Measuring Beaker With Handle, Polypropylene, Autoclavable.

Code	Description	Price
JME060026	100ml	£7.05
JME060046	500ml	£3.56
JME060056	1 Litre	£4.88
JME060086	5 Litres	£20.80



Short Form Polypropylene Measuring Jug

Autoclavable, highly translucent especially when filled with liquids. Permanently moulded graduations. Excellent chemical resistance. No drip spout. Thumb grip on handle. Suitable for food stuff. Polypropylene

Code	Description	Price
JME020010	500ml	£2.85
JME020020	1 Litre	£3.70
JME020030	2 Litres	£6.18
JME020040	3 Litres	£9.88
JME020050	5 Litres	£14.83



Easy pouring

SET OF 3

Polypropylene Measuring Jug Set

Made of with high quality polypropylene plastic. Jug features excellent optical clarity and easy to read, raised graduations and specifications. Features a spout for easy pouring, and handle for stable handling and convenient lifting. Includes 250, 500 and 1000ml.

Code	Description	Price
616-048	Set of 3	£6.04



Hand Magnifier with Metal Frame

Hand Magnifier, Glass with metal frame.

Code	Description	Price
MAG040010	50mm Diameter	£1.99
MAG040020	63mm Diameter	£3.33
MAG040030	75mm Diameter	£2.65
MAG040040	90mm Diameter	£6.11

Economical

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of labware visit

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Single fold out lense



**GREAT FOR
STUDENTS**

Folding Pocket Magnifier

Economically priced folding magnifier. 25mm lens.
Available in single or double.

Code	Description	Price
MAG030010	25mm Diameter, Single Lens	£1.42
MAG030020	25mm Diameter, Double Lens	£1.49

Large Sheet Magnifier

This is a low cost, easy to use magnifier
which pupils can easily hold to view
objects around them at between
2x and 3x magnification.
Size: 225 x 145mm.

Code	Description	Price
MAG610010	225 x 145mm	£4.14

Expert Advice

Our experts are always
happy to help, call on:
01902 402 402





Brass Slotted Masses

Accurate machined Brass masses.

Code	Description	Price
MAS010030	5g	£0.73
MAS010040	10g	£1.19
MAS010050	20g	£1.23
MAS010060	50g	£2.74
MAS010070	100g	£3.97



Brass Weight Hangers

Brass Mass hanger with top hook.

Each of these mass hangers features a top hook.

Code	Description	Price
MAS020010	10g	£2.61
MAS020020	20g	£2.83
MAS020040	100g	£4.82

Hexagonal Iron Mass with Ring

Hexagonal iron masses with ring.

Code	Description	Price
MAS040010	100g	£2.93
MAS040020	200g	£4.21
MAS040030	500g	£7.09
MAS040040	1kg	£12.76
MAS040050	1kg	£21.33

Traditional



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Bench Mats

Calcium silicate, asbestos-free bench mats with well-finished edges. Packed in sturdy cartons.

Code	Description	Price
EDU1008	150x150mm (Pk10)	£4.78
EDU1009	230x230mm (Pk10)	£8.65
EDU1010	300x300mm (Pk10)	£11.87



Measuring Tape

Long life, tough, rust-proof tapes made from fibreglass.

Code	Description	Price
YSU060010	10 Meter	£8.88
YSU060020	20 Meter	£11.49
YSU060030	30 Meter	£23.19
YSU060040	50 Meter	£29.53



Clinometer

A well designed height and angle measuring instrument. Point it at the top of the object you are measuring, pull the trigger and then read off the angle on the protractor. The height is then easy to find by using the supplied guide.

Code	Description	Price
YSU040010	Clinometer	£11.86

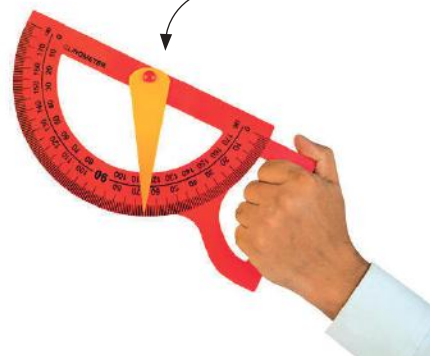


Open Frame Measuring Tape

These open frame surveyors' tapes are made from heavy duty plastic with a 13mm wide fibreglass blade. Comes with folding end claw and handle. Measures from zero.

Code	Description	Price
YSU090010	30 Meter	£18.80
YSU090020	50 Meter	£28.79

Measure the elevation/depression of any object



Economy Clinometer

A clinometer is a simple device that can be used to measure the elevation/depression of any object. This can also be used to find the height of the building etc.

Code	Description	Price
YSU50010	Economy Clinometer	£7.58



Tape Measure

Plastic tape cases with locking button and belt clip. Power return blade has clear graduations, metres into cm/mm and feet into inches, 1/8", 1/16" and 1/32". Yellow wear resistant coating. Stud centre markings every 16". Self-aligning end hook for accurate internal/external measurements.

Code	Description	Price
YSU300010	5 Meter	£4.04



PACK OF 10

Clear Plastic Ruler

15cm ruler manufactured from a lightweight but durable plastic. The clear design also allows the users to visually identify existing marks on the paper below, guaranteeing heightened accuracy in your measuring. Along the rectangular body, millimetre, centimetre and inch increments have been clearly printed in a black ink.

Code	Description	Price
RUL050011	15cm, Pack of 10	£3.11

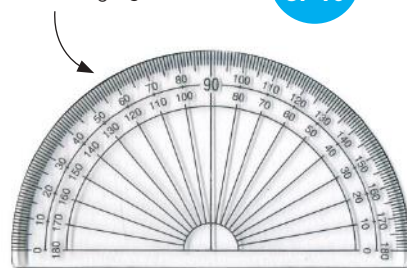
Clear Plastic Protractor

Made from plastic, this protector measures approximately 10cm in length, and you can use it to draw straight lines if your ruler is nowhere to be found. This plastic protractor was designed to measure different angles, an essential piece of equipment for any mathematics student. The transparent plastic allows you to measure various angles easily.

Code	Description	Price
RUL070010	10cm Protractor	£3.48

Designed to measure different angles

PACK OF 10





Porcelain Mortar & Pestle

Unglazed grinding surface with glazed outside.

Code	Description	Price
MOR020010	30ml	£10.49
MOR020020	110ml	£11.58
MOR020030	160ml	£18.53
MOR020040	220ml	£19.47
MOR020050	400ml	£34.58



Simax Mortar & Pestle

Simax Mortar And Pestle, Glazed, Outer Diameter Top 100mm, Outer Diameter Bottom 60mm, Height 75mm, Borosilicate 3.3.

Code	Description	Price
MOR010020	100mm Diameter	£25.26



Polystyrene Petri Dishes

Petri Dish, 90mm, Ideal for use in automatic plate pourers and general microbiology culture. Manufactured from non-cytotoxic virgin polystyrene with high optical clarity.

Code	Description	Price
PDP050070	SV 90mm	£105.03
PDP050080	TV 90mm	£105.03

PACK
OF 500



PACK
OF 500

3 Compartment Polystyrene Petri Dish

Made of polystyrene and aseptic, Deltalab's 90mm Petri Dishes with Three Compartments are supplied in individual sleeves of 20 units (in heat sealed bags), with 25 sleeves per box (500pcs). They are suitable for automatic filling machines.

Code	Description	Price
\$200203	90mm, 3 Compartment Petri Dishes	£133.86



PACK
OF 10

Resistance Glass Petri Dishes

- ✓ Petri dish and lid
- ✓ Soda glass
- ✓ Can be autoclaved up to 160°C

Code	Description	Price
PDG040010	60x12mm	£12.70
PDG040020	80x15mm	£12.47
PDG040030	100x15mm	£14.41



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Capacity to hold
90 mm sizes
petri dishes

Petri Dish Rack

This petri dish rack is made of clear acrylic with white polycarbonate posts, with a capacity to hold 90 mm sizes petri dishes. Will hold about sixty (60) 90mm petri dishes. Acrylic Base measures 11.1" long x 8" wide x 8.5" tall. Base is 0.38" thick. Not autoclavable.

Code	Description	Price
CH0376	Petri Dish Rack	£27.81



Lime glass

PACK OF 1000

Pasteur Pipettes

Pasteur Pipette Soda lime glass, 1.0-1.2 T, 1000 pack.

Code	Description	Price
PPP010016	150mm Long	£36.97
PPP010026	230mm Long	£33.43



PACK OF 10

ECONOMICAL

Pasteur Pipette Teats

Red PVC Dropper Teats.

Code	Description	Price
PPP010030	Pack of 10 Teats	£4.45



PACK OF 500

Disposable Graduated Pipettes

Sterile Disposable Graduated Pipettes. Produced from translucent polyethylene and graduated on the stem. Length: 150mm.

Code	Description	Price
PPT300010	Sterile, 1ml	£22.53
PPT300030	Non-Sterile, 1ml	£12.96
PPT300040	Non-Sterile, 3ml	£10.18



PACK OF 10

Dropping Pipettes

Glass pipettes with rubber teat. Length: 75mm.

Code	Description	Price
PPD010011	Without Teat	£4.84
PPD010021	With Teat	£3.24
PPD010031	Spare Teats	£3.65



Graduated 10ml

Graduated Pipettes

Pipette, Graduated 10ml x 0.1 Capacity.

Code	Description	Price
CH0564D	10mlx0.1	£2.30
CH0564E	25mlx0.2	£3.46



Graduated Class B Glass Pipettes

Zero at outlet. Delivery to jet. Class 'B'. Type 2.

Code	Description	Price
PPG095010	1ml	£7.69
PPG095020	2ml	£8.19
PPG095030	5ml	£8.44
PPG095040	10ml	£10.26
PPG095050	25ml	£13.63



Class B

Glass One Mark Bulb Pipettes

Pipette, One Mark (Bulb Type), Class B, 20ml, 25ml or 50ml Borosilicate Glass.

Code	Description	Price
CH0558F	20ml	£2.61
CH0558G	25ml	£2.73
CH0558H	50ml	£3.11



Budget Pipette Fillers

Budget range of plastic pipette fillers in 3 sizes.

Code	Description	Price
PRF100010	2ml	£5.43
PRF100020	10ml	£5.73
PRF100030	25ml	£5.26



Variable Micropipette

Fully autoclavable. UV resistance. 'CE' mark awarded. Click-stop system for digital volume setting. Ergonomic design ensuring light weight & soft plunger movement. Two step plunger operation allows 'reverse pipetting technique'.

Code	Description	Price
PRP550020	0.5-10µl	£108.34
PRP550030	2-20µl	£108.34
PRP550040	5-50µl	£101.84
PRP550050	10-100µl	£108.34
PRP550060	50-200µl	£108.34
PRP550070	20-200µl	£108.34

Code	Description	Price
PRP550080	100-1000µl	£108.34
PRP550090	200-1000µl	£108.34
PRP550100	500-5000µl	£101.84
PRP550110	1000-5000µl	£95.03
PRP550120	500-10000µl	£108.34

COMFORTABLE
AND EASY
TO USE



Pipette Controller

This pipette controller is comfortable and easy to use. It offers precise pipetting control for the complete range of glass and plastic pipettes both volumetric and graduated, from 0.1ml to 100ml.

Code	Description	Price
PRF090010	Blue	£45.77
PRF090020	Red	£45.77
PRF090030	Green	£45.77



Rubber Pipette Filler

A moulded rubber bulb, approx. 60ml capacity, with three glass ball valves which can be controlled by finger pressure.

Code	Description	Price
PRF030010	Rubber Pipette Filler	£10.19



Premium Pipette Filler

Fast-release pipetting device for precise pipetting or zip-quick emptying.

Code	Description	Price
PIPUMP10	10ml	£6.04
PIPUMP25	25ml	£7.35



3 Valve Pipette Filler

Suitable for pipettes up to 60ml.

Code	Description	Price
PRF020020	3 Valve Pipette Filler	£4.34



Fixed Micropipette

Fully autoclavable. UV resistance. 'CE' mark awarded. Click-stop system for digital volume setting.

Code	Description	Price
PRP560030	10µl	£67.32
PRP560070	100µl	£67.32
PRP560110	1000µl	£67.32



Pipette Tips

Non-sterile, universal, polypropylene pipette tips.

Code	Description	Price
PRT190010	5-200µl	£8.99
PRT190020	100-1000µl	£10.86

PACK OF
1000



Pipette Tips

Elkay standard pipette tips are designed to fit and function on a wide variety of single or multichannel pipettors.

Code	Description	Price
PRT040061	1-5ml, Blue	£29.53
PRT040071	1-5ml, Natural	£19.76

PACK
OF 250

Suitable for laboratory bench work where a high vacuum is required in relatively clean applications



BEST SELLER

CCL Series Vacuum Pump

The CCL Series are oil sealed, two-stage, high vacuum pumps. The pumps are dual voltage and are suitable for laboratory bench work where a high vacuum is required in relatively clean applications.

Code	Description	Price
PVA120010	Javac CCL-31	£582.47



CAN BE USED IN A WIDE RANGE OF LABORATORY APPLICATIONS

Mini Diaphragm Vacuum Pump

This diaphragm pump is a single-head, dry-running device that can be used in a wide range of laboratory applications. It transfers, compresses and pumps down without contamination. At the heart of these very compact pumps is a KNF structured diaphragm.

Code	Description	Price
PDM050041	Mini Diaphragm Vacuum Pump	£342.86



Quiet

Electric Vacuum Pump

Being very quiet and with low energy consumption, this rotary vacuum pump is ideal for all general laboratory applications requiring vacuum.

Code	Description	Price
612-001	Electric Vacuum Pump	£271.27

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SciChem.com



Dymax Pumps

These pumps offer whisper quiet, oil free operation for contamination free pumping of air and gas.

Code	Description	Price
PDM040010	Dymax Pumps	£498.76



Suitable for a number of standard duty lab applications

Oil-Free Vacuum / Pressure Pump

The 2511 oil free vacuum / pressure pump is suitable for a number of standard duty lab applications, such as vacuum, pressure filtration (1 filter), degassing, gas sampling and desiccation.

Code	Description	Price
PVA200010	Piston Pump WOB-L-2511	£272.95



Nickel Plated Brass Connector

Filter pump connectors.

Code	Description	Price
PFL010010	Threaded Connector	£45.32
PFL010020	Tube Connector	£35.42

Water Jet Vacuum Pump

This pump will work on pressures up to 10 kg/cm. Built-in non return valve to eliminate back flow. Useful for sucking to waste any spilt chemicals as well as for filter work. Easily dismantled for cleaning. Autoclavable. Evacuating nozzle tapers from 9 to 20mm. Example: Operating pressure of water: 1kg/cm. Attained Vacuum: 15mm Hg.

Code	Description	Price
PFL030010	Vacuum Pump	£17.95
PFL030500	Connectors	£6.73

AUTOCLAVABLE



Hand Vacuum Pump

A lightweight hand operated vacuum pump, drawing 15cm³ per stroke, up to a maximum vacuum of 50mmHg. It can be used to produce positive gauge pressures up to 2atm.

Code	Description	Price
251-001	Hand Vacuum Pump	£19.89



Hand Operated Vacuum Gauge Pumps

Attains and holds vacuum of 635mm Hg. Vacuum release trigger. Adjustable vacuum release rate. Full blank port pressure is achieved with two strokes. Ideal for siphoning, filtration, liquid transfer, bleeding fluid lines and checking for equipment leaks. Polyvinyl chloride body.

Code	Description	Price
PFL040020	36ml / stroke	£249.95

Expert Advice

Our experts are always happy to help, call on:
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- View your statements and invoices for payment
- Check your order status





Polypropylene Measuring Scoops

100ml measuring scoops which are also suitable as weighing scoops. With precisely formed filling edge and comfortable, stable handle.

Code	Description	Price
SCP050010	100ml, Red	£1.85
SCP050020	100ml, Yellow	£1.85
SCP050030	100ml, Blue	£1.85

SET
OF 9

Stainless Steel Soil Sieve Set

A set of nine stainless steel soil sieves with the following mesh sizes: 10, 20, 30, 40, 60, 80, 100, 120 and 250. Set supplied with an aluminium cover and receiver pan. Mesh number equates to the number of holes per square inch. Size: 100 x 45mm (Dia x Depth).

Code	Description	Price
SVE010060	Set of 9	£167.68

High Quality



Stainless Steel Scoop

Laboratory Cylindrical Scoop, stainless steel 304 spec 18/8 non-magnetic, bright finish.

Code	Description	Price
SCP020020	250ml	£35.60
SCP020030	500ml	£46.35
SCP020040	1 Litre	£54.26

Expert Advice

Our experts are always happy to help, call on: **01902 402 402**



Individually manufactured under the most stringent quality control procedures

Brass Sieves

Every single test sieve is individually manufactured under the most stringent quality control procedures using only the finest materials. We use the most advanced computer scanning techniques to ensure precise test sieve apertures.

Code	Description	Price
SVE060020	200mm, 850 Micron	£98.81
SVE060220	200mm, 150 Micron	£98.81

VFM

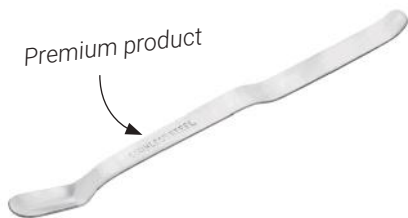


Plastic Soil Sieve

Measuring 365mm diameter and with a 12 x 7mm mesh, it's perfect for removing stones from soil and aerating soil or compost. Its powder coated steel fabrication will deliver years of faithful gardening service.

Code	Description	Price
YPP120010	365mm Diameter	£16.76

Premium product



Nuffield Spatula

Single, high quality, stainless steel spatula featuring one flat end and one scoop end and raised center section. Flat end bends upward slightly at the edge.

Code	Description	Price
SPNUF140	5.75"	£0.40

Spoon End Stainless Steel Spatula

Well finished and polished stainless steel spatula, with one end flat and the other end spoon form.

Code	Description	Price
EDU084/PK10	150mm	£5.25
EDU085/PK10	200mm	£7.32
EDU085A	300mm	£6.95

PACK
OF 10



A LAB ESSENTIAL



BEST
SELLER

Nuffield Spatula

Nuffield Spatula, stainless steel.

Code	Description	Price
SPA140010	140mm	£0.57



Spatula Trulla s/s (Each)

Laboratory Trulla Spatula, stainless steel 304 spec 18/8 non-magnetic, bright finish.

Code	Description	Price
SPA060010	175mm	£3.97

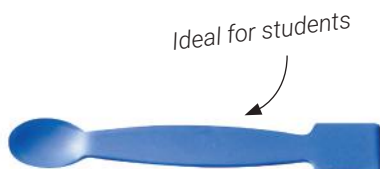


High quality

Trulla Spatula

Pack of six high quality, stainless steel laboratory scoop type spatulas. Polished.

Code	Description	Price
SPA140020	6.3"	£1.83



Ideal for students

Polypropylene Spatulas

Spoon ended on one end and flat construction with knife edge on the other. This edge is useful for breaking up crystals etc.

Code	Description	Price
SPA150010	150mm	£0.32
SPA150020	200mm	£0.42



Economical

Parallel Blade Spatula

Stainless steel, parallel blade spatula with wooden handle.

Code	Description	Price
SPA090010	100mm	£4.93
SPA090020	150mm	£6.68
SPA090030	200mm	£10.30



PACK
OF 5

Chattaway Spatulas

Laboratory Chattaway Spatula, stainless steel 304 spec 18/8 non-magnetic, bright finish.

Code	Description	Price
SPA040040	100mm	£14.63
SPA040050	150mm	£18.70
SPA040060	200mm	£22.97



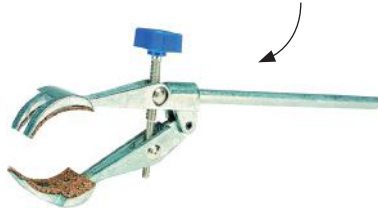
10 x 1.5mm
metric thread



Steel Retort Rod

With 10 x 1.5mm metric thread.

Code	Description	Price
RDMS0500	10mm x 1.5mm - 500mm	£2.49
RDMS0600	10mm x 1.5mm - 600mm	£4.25
RDMS0750	10mm x 1.5mm - 750mm	£4.93



Actuated by
nickel-plated brass
pummels

Cork Lined Retort Clamp

Diecast in alloy and fitted with an aluminium shaft. The clamp accepts articles up to 85mm diameter. Actuated by nickel-plated brass pummels and blue plastic headed nickel-plated steel twin screw.

Code	Description	Price
SCL010010	Cork Lined Retort Clamp	£11.64



Retort Stand Kit

The Retort Metalware Kit includes a class set of the essential metalware to start a basic chemistry experiment.

Code	Description	Price
750-001	Retort Stand Kit	£63.49



Metal Bosshead

For use with retort stand rods. Die-cast alloy accepts rods up to 16.5mm diameter at right angles to each other. Finished in high-quality blue coating. Metal edges well finished for safe use.

Code	Description	Price
CH0663B/SINGLE	16mm Diameter	£2.38



For use with rods up
to 16 mm diameter

Straight Bosshead

Retort bosshead straight.

Code	Description	Price
SBH010010	Straight Bosshead	£2.21

Bosshead

Cast alloy with blue plastic headed nickel plated steel screws. For use with rods up to 16mm diameter.

Code	Description	Price
SBH010020	16mm Diameter	£5.43



Cast Iron Retort Stand Base

A sturdy cast-iron base, finished in blue/black, with a tapped hole to accept a rod with 10 x 1.5mm metric thread.

Code	Description	Price
BASE160T	160x100mm	£5.33
BASE200T	200x125mm	£6.95
BASE250T	250x160mm	£8.95

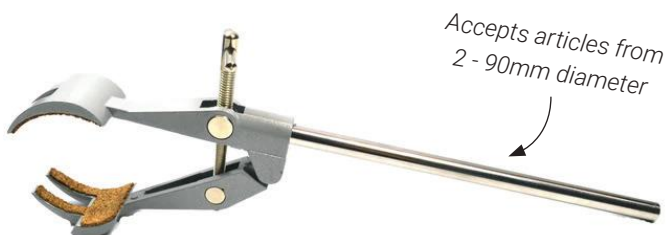


Bosshead with Eccentric Rings

Bosshead with Eccentric Rings, 50mm Internal Diameter. These rings have a standard stem length with various ring diameters.

Code	Description	Price
SCL050010	50mm Diameter	£13.20
SCL050020	75mm Diameter	£13.59
SCL050030	100mm Diameter	£13.59





Cork Jaws Retort Clamp

Four prong, cork jaw clamp finished in high quality blue coating. The clamp accepts articles from 2 - 90mm diameter. Rod length 145mm. The design of the jaw ensures a firm grip at all angles of opening. The cork liners are well secured to the jaws of the clamp. Overall length: 245mm.

Code	Description	Price
CLMPCRK	Four Prong, Cork Jaw Clamp	£2.49



Rubber Lined Clamp

PVC coated diecast jaw, with clamping tommy-bar screwthrough swivels, mounted on 13.5 cm rod. PVC coated diecast jaw, with clamping tommy-bar screwthrough swivels, mounted on 13.5 cm rod. of dia. 8 mm jaw capacity 90 mm and overall length 25cm.

Code	Description	Price
SCL060010	3 Prong, PVC Coated Diecast Jaw	£2.95



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Rubber Lined Clamp

Single adjustable style, PVC coated three prongs. Made of Aluminium alloy. Rod 8mm diameter, 155mm long. Overall length is 270mm.

Code	Description	Price
SCL020010	PVC Three Prong Retort Clamp	£4.33



Hardwood Burette Stand

Burette rack made of seasoned hardwood. Stands 19.5" tall with either single or double arm to hold a burette.

Code	Description	Price
STA130010	Single	£16.98
STA130020	Double	£10.62



Polypropylene Burette Clamps

Polypropylene burette clamp which is corrosion proof.

Code	Description	Price
BHR060010	Single	£2.21
BHR060020	Double	£3.86



Double Burette Clamp

High strength alloy casting with plastic jaws. The spring is positive, yet allows easy operation and will not damage glassware. Suitable for all burettes up to 100ml capacity.

Code	Description	Price
BHR010010	Double Burette Clamp	£53.38



Burette Clamps

The plastic-covered jaws of this burette clamp open up to 35mm, rotate 360° and lock in position at any angle. Fits rods up to 16mm in diameter. The length of the clamp is adjustable.

Code	Description	Price
BHR070010	Burette Clamp	£7.06



Burette Clip

For supporting 25mm or 50mm burettes. The clamp is made with two plastic coated spring clips mounted 50mm apart on a stainless steel plate and a rod 150 x 8mm diameter.

Code	Description	Price
BHR050010	Burette Clip	£8.85

Soda Glass Stirring Rods

In 0.5m lengths.

Code	Description	Price
RSG010010	4mm Diameter (50pk)	£38.82
RSG010020	5mm Diameter (50pk)	£31.95
RSG010030	6mm Diameter (40pk)	£45.31
RSG010040	7mm Diameter (25pk)	£42.64



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PACK
OF 10

Polypropylene Stirring Rods

The tapered body gives strength to the 12mm triangular scraper at one end and flexibility to a 15mm palette knife blade at the other. These rods are autoclavable.

Code	Description	Price
RST040010	244mm Length	£10.02



PACK
OF 10

Made of
borosilicate glass

Borosilicate Glass Stirring Rods

250mm x 6mm diameter glass rods with rounded ends. Made of borosilicate glass.

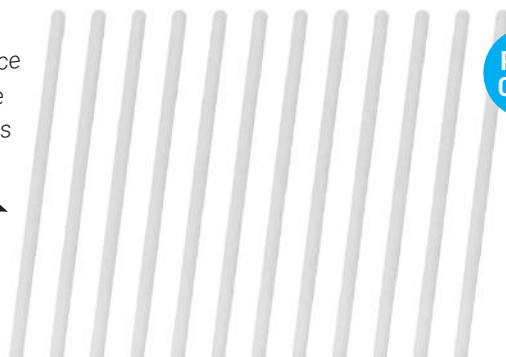
Code	Description	Price
RST020010	6mm Diameter	£5.68

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of labware visit

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An ideal choice
for science
classrooms



PACK
OF 10

Polypropylene Stirring Rods

Pack of twelve, multipurpose stirring rods made of high quality, heavy duty polypropylene. Designed for use in professional laboratories, but is an ideal choice for science classrooms and household use.

Code	Description	Price
RST020020	7mm Diameter, 9.8" Length	£6.25
RST020030	6mm Diameter, 5.9" Length	£5.62



Assorted Cork Stoppers

Bark cork stopper. Supplied in pack of 144.

Code	Description	Price
CRKASS	Assorted Sizes	£57.83



Steppa-Stopper

The ISG Steppa-Stopper is a simple yet innovative product designed to replace the standard rubber stoppers. The stopper is made from blended polymer and features an incremental taper to suit most applications and eliminating the need for multiple sized rubber stoppers. The stopper is available in two sizes (small and large) and both come in a box of 10 stoppers. They are autoclavable. The stoppers work best when dry and a microfiber drying cloth is provided for your convenience.

Code	Description	Price
153-925	Small	£26.10
153-926	Large	£29.50



1 Hole Rubber Stoppers

1 Hole Red Rubber Stoppers. Other sizes available please see our website.

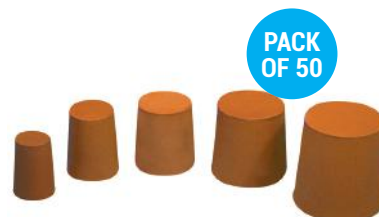
Code	Description	Price
RTS020101	13mm Bottom Diameter (20pk)	£4.26
RTS020111	15mm Bottom Diameter (20pk)	£4.79
RTS020121	17mm Bottom Diameter (20pk)	£5.51
RTS020131	19mm Bottom Diameter (20pk)	£7.19
RTS020141	21mm Bottom Diameter (20pk)	£10.66
RTS020151	23mm Bottom Diameter (20pk)	£14.66
RTS020161	25mm Bottom Diameter (20pk)	£15.14
RTS020171	27mm Bottom Diameter (10pk)	£8.38
RTS020191	31mm Bottom Diameter (10pk)	£12.22



2 Hole Rubber Stoppers

2 Hole Red Rubber Stoppers. Other sizes available please see our website.

Code	Description	Price
RTS030110	15mm Bottom Diameter (20pk)	£9.37
RTS030120	17mm Bottom Diameter (20pk)	£12.85
RTS030130	19mm Bottom Diameter (20pk)	£15.44
RTS030160	25mm Bottom Diameter (20pk)	£24.27
RTS030180	29mm Bottom Diameter (10pk)	£17.88
RTS030210	35mm Bottom Diameter (10pk)	£32.13



Solid Rubber Stoppers

Solid Red Rubber Stoppers. Other sizes available please see our website.

Code	Description	Price
RTS010090	11mm Bottom Diameter (20pk)	£5.45
RTS010110	15mm Bottom Diameter (20pk)	£6.47
RTS010130	19mm Bottom Diameter (20pk)	£10.39
RTS010160	25mm Bottom Diameter (20pk)	£16.75
RTS010180	29mm Bottom Diameter (10pk)	£12.11



Assorted Solid Rubber Stoppers

Assorted containing 7 sizes. Pack of 50

Containing 7 pieces each of sizes 8, 9, 11, 13, 15 mm bottom dia and 3 pcs. each of 17, 21, 23, 25, 29 mm bottom dia. Solid. Pack of 50.

Code	Description	Price
CH0315	Assorted Sizes	£23.20



Assorted 1 Hole Rubber Stoppers

Pack of 50 assorted orange rubber stoppers each with one 5mm diameter hole. Made of superior quality, long lasting rubber that is resistant to acids, alkali and ammonia. Contains the following quantities and sizes (bottom diameters): 7 stoppers each of 5 different sizes: 8mm, 9mm, 11mm, 13mm, 15mm. 3 stoppers each of 5 different sizes: 17mm, 21mm, 23mm, 25mm, 29mm.

Code	Description	Price
CH0316	Assorted Sizes	£23.20



Assorted 2 Hole Rubber Stoppers

Assorted containing 10 pieces each of size 13, 15, 17, 18 mm bottom dia., 3 pcs. each of 21, 23 mm bottom dia. and 2 pcs. each of 25, 29 mm dia. with two hole. Pack of 50.

Code	Description	Price
CH0317	Assorted Sizes	£23.20



PACK
OF 100

Irradiated Swabs

Primary sample collection device for bacteria. Colour-coded caps for ease of identification. Lot number, expiry date and tamper evident labelling to ensure complete traceability and sterility. Maximum 5 year shelf life.

Code	Description	Price
SWA010020	Sterile Plain Plastic Stick Swabs	£19.95



PACK
OF 500

Sterile Plastic Stick Swab

Sterile transport swab supplied in individual labelled polypropylene tubes complete with tamper-evident label. Each label is clearly printed with lot number and expiry date.

Code	Description	Price
SWA180010	Plain Sterile Swab in Tube	£88.04

Milton®

MAXIMUM PROTECTION

**Look out for
the range on
page 139**

Kills 99.9% of germs including bacteria, fungi and viruses.

Effective on Rotavirus (N°1 cause for gastroenteritis), MRSA and the swine flu virus.

Milton is recommended for use in sterilising eye protection and other school laboratory equipment in CLEAPSS guide GL-362



Disposable Plastic Syringe

Syringe, disposable, plastic.

Code	Description	Price
772-006	5ml x 1ml	£1.77
772-007	10ml x 1ml	£2.42
772-008	20ml x 1ml	£3.61

Hypodermic Syringes

All glass, luer fitting, fully interchangeable. Supplied without needles.

Code	Description	Price
SYR030010	1ml	£2.34
SYR030020	2ml	£2.34
SYR030040	10ml	£2.85
SYR030050	20ml	£4.22



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Glass Syringes with Metal Luer Tip

Glass with metal tip, luer fitting, fully interchangeable.

Code	Description	Price
SYR160010	2ml	£2.88
SYR160030	10ml	£3.35
SYR160040	20ml	£4.53
SYR160050	50ml	£11.93

Expert Advice

Our experts are always
happy to help, call on:
01902 402 402



Hypodermic Needles

Sharp end, luer lock fitting. Non sterile, packs of 10.

Code	Description	Price
SYR260100	18 Gauge, 50mm Length	£14.29
SYR260120	18 Gauge, 100mm Length	£15.11



Sterile Disposable Plastic Syringes

Plastic, sterile, disposable syringes supplied without needles.

Code	Description	Price
SYR200010	1ml (Pk 100)	£16.75
SYR200021	2.5ml (Pk 100)	£10.61
SYR200030	5ml (Pk 100)	£16.75
SYR200040	10ml (Pk 100)	£21.55
SYR200050	20ml (Pk 50)	£15.55
SYR200060	50ml (Pk 25)	£28.74

Expert Advice

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Extra thick wall

Essentials Borosilicate Test Tubes

Borosilicate glass, available with standard or extra thick wall thickness. With rim.

Code	Description	Price
EDU1014	Standard Wall (100pk)	£24.85
EDU1016	Extra Thick Wall (50pk)	£16.22

Very high quality

Economy Borosilicate Test Tubes with Rim

Kimble Test Tubes are of very high quality, made from borosilicate 3.3 glass complete with rim. Uniform wall thickness, and designed for maximum heat transfer and chemical resistance.

Code	Description	Price
TBS060010	10x75mm (100pk)	£22.84
TBS060020	12x75mm (100pk)	£25.04
TBS060030	12x100mm (100pk)	£32.43
TBS060040	16x100mm (100pk)	£41.16
TBS060050	16x125mm (100pk)	£33.84
TBS060060	18x150mm (100pk)	£53.29
TBS060070	24x150mm (50pk)	£32.95



Soda Glass Test Tubes with Rim

Soda glass, Light wall with rim.

Code	Description	Price
TES010030	10x75mm (100pk)	£12.07
TES010050	12x100mm (100pk)	£12.91
TES010060	16x100mm (100pk)	£18.16
TES010070	16x125mm (100pk)	£18.08
TES010090	16x150mm (100pk)	£20.88
TES010080	18x125mm (100pk)	£21.19
TES010110	24x150mm (50pk)	£18.61

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Borosilicate Medium Wall Test Tube with Rim

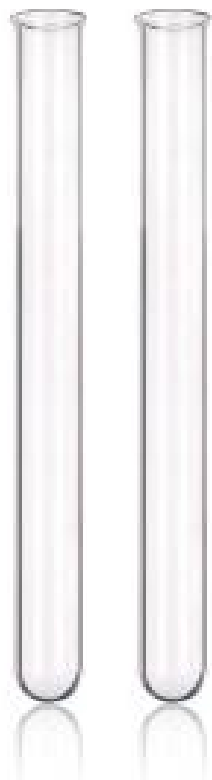
Test Tubes manufactured to ISO 4112 from borosilicate 3.3 glass to ISO 3585 giving a consistent, even wall thickness and excellent thermal properties.

Code	Description	Price
TBS160010	10x75mm (100pk)	£25.13
TBS160030	12x100mm (100pk)	£35.55
TBS160040	16x100mm (100pk)	£46.36
TBS160050	16x125mm (100pk)	£47.95
TBS160060	16x150mm (100pk)	£49.81
TBS160070	18x150mm (100pk)	£59.04
TBS160080	24x150mm (50pk)	£31.31

Borosilicate Heavy Wall Test Tube with Rim

Test Tubes manufactured to ISO 4112 from borosilicate 3.3 glass to ISO 3585 giving a consistent, even wall thickness and excellent thermal properties.

Code	Description	Price
TBS170010	12x75mm (100pk)	£32.12
TBS170020	16x125mm (100pk)	£73.77
TBS170030	16x150mm (100pk)	£76.61
TBS170040	18x150mm (100pk)	£81.50
TBS170050	24x150mm (50pk)	£59.46



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THERMAL
PROPERTIES**



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Soda Glass Medium Wall Test Tube Without Rim

Medium wall rimless bacteriological quality.

Code	Description	Price
TES020020	10x75mm (100pk)	£14.35
TES020040	12x100mm (100pk)	£16.86
TES020050	16x125mm (100pk)	£22.92
TES020060	16x150mm (100pk)	£25.94
TES020070	18x150mm (100pk)	£29.39
TES020080	24x150mm (50pk)	£23.43



Borosilicate Medium Wall Test Tube Without Rim

Borosilic, medium wall, rimless.

Code	Description	Price
TBS070010	75x10mm (100pk)	£28.24
TBS070060	150x16mm (100pk)	£54.05
TBS070080	150x24mm (50pk)	£39.32

**BEST
SELLER**



Z Shape Test Tube Rack

Z shape made from powder coated steel shee with three tiers. Has an overall height of 75mm and length of 200mm. This stand has 5 holes of 28mm, 6 holes of 20mm and 8 holes of 13mm diameter.

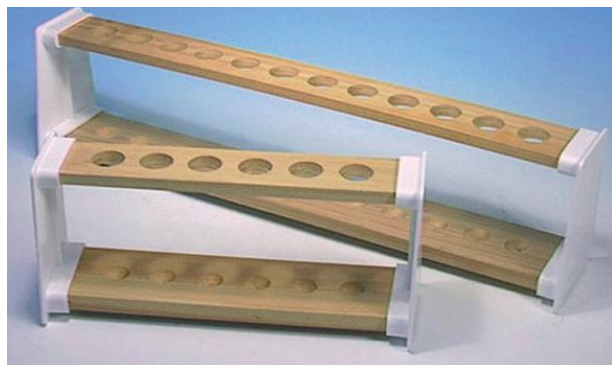
Code	Description	Price
STT100011	Single	£3.45



Economy Test Tube Rack

Replacement for wood and metal racks. For six test tubes. Has six openings of 25mm diameter on top plate, with hemispherical wells and drying pins. Open side for clear viewing. Dimensions (LxWxH): 240 x 70 x 90mm.

Code	Description	Price
TTR220010	6 Holes	£1.15



Wooden Test Tube Rack

Wooden Test Tube Rack, 22mm Holes-Plain. Available with either 6 or 12 holes.

Code	Description	Price
STT010010	6 Holes	£4.81
STT010020	12 Holes	£5.95



Nuffield Style Wooden Test Tube Rack

Nuffield style with 10 holes. 4x25mm and 6x17mm holes. Dimensions: 170 x 60 x 25mm.

Code	Description	Price
STT060010	10 Holes	£9.61



Polypropylene Test Tube Racks

Very popular conventional test tube racks. Autoclavable. Will withstand temperatures up to 120°C. Indentations on base area to hold test tubes in position.

Code	Description	Price
STT080010	10x19mm	£9.20
STT080030	12x21mm	£11.62
STT080040	24x21mm	£22.01



Test Tube Holders

Various test tube holders.

Code	Description	Price
TTH010010	Wooden Peg Type (10pk)	£7.85
TTH010020	All Metal (10pk)	£8.24
TTH010030	Brass with Wooden Handle (Each)	£5.60
TTH020010	Metal Test Tube Holder (Each)	£3.85



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Digital Thermometer

Hand held electronic thermometer with probe and maximum/minimum temperature memory for a wide range of applications. Features: Wide temperature range, -50 to +200°C. °F range available. Magnetic attachment. 1 second sampling rate. Resolution 0.1°C (between -19.9°C & 199°C, otherwise 1°C) Large and clear digital display with data hold function. 1500mm cable with stainless steel probe, 3.5mm diameter x 125mm long. Product size 65 x 97 x 20mm. Requires 1 x 1.5V AAA battery (supplied).

Code	Description	Price
THZ340010	Digital Thermometer with Probe	£23.96



Breaksafe Thermometer

The Breaksafe Thermometer is a 205mm green spirit filled -10/110°C partial immersion thermometer. The unique feature of this product is that should accidental breakage occur all contents will remain encapsulated within the special PVC coating, preventing spillage.

Code	Description	Price
THS080010	-10°C to 110°C, 205mm Length, Green Spirit	£6.82

Initial Brand Thermometers

The initialTM Brand range of laboratory thermometers offer a significant saving on our standard range of thermometers while making no compromises to the traditional Brannan quality and accuracy. This entry level range is now available in a choice of green or blue spirit filling and has a Tri-top, moulded glass non-roll device to help prevent breakage. These thermometers are printed with a clear, easy-to-read scale making them particularly suitable for student use. The glass thermometers are also available encapsulated in PVC to contain any glass or filling material in event of breakage as part of the Brannan breaksafeTM range of laboratory thermometers.

Code	Description	Price
THS020010	-10°C to 110°C, 150mm Length, Green Spirit (5pk)	£8.00
THS020020	-10°C to 110°C, 200mm Length, Green Spirit (5pk)	£8.24
THS020030	-10°C to 110°C, 300mm Length, Green Spirit (5pk)	£8.48
THS110010	-10°C to 110°C, 150mm Length, Blue Spirit (5pk)	£8.00
THS110020	-10°C to 110°C, 200mm Length, Blue Spirit (5pk)	£9.41
THS110030	-10°C to 110°C, 300mm Length, Blue Spirit (5pk)	£8.48

PACK OF 5



General Purpose Spirit Filled Thermometers

These thermometers use specially selected filling material covering temperatures down to -100°C. Normal fillings are coloured red on a white back glass but alternative colours are available as shown. Thermometers normally supplied with a non-roll end cap which has a ring to allow the thermometer to be suspended.

Code	Description	Price
THS050010	-10°C to 110°C, 150mm Length, Red Spirit (10pk)	£18.91
THS050020	-10°C to 150°C, 205mm Length, Red Spirit (5pk)	£12.04
THS010010	-10°C to 50°C, 305mm Length, Red Spirit (5pk)	£16.67
THS010020	-10°C to 110°C, 305mm Length, Red Spirit (5pk)	£14.27
THS010030	-10°C to 150°C, 305mm Length, Red Spirit (5pk)	£16.53

Expert Advice

Our experts are always happy to help, call on: **01902 402 402**



Lotox (Low Toxicity) Thermometers

This range of thermometers with an environmentally friendly filling offers the ideal substitute for the traditional mercury filled thermometers up to 330°C. Low toxic blue or brown filling is easy to read. Accurately calibrated against traceable standards. Temperature ranges up to 330°C. Blue non-roll top and safety suspension ring.

Code	Description	Price
THS070010	-10°C to 110°C, 155mm Length, Blue Spirit	£2.27
THS070070	-10°C to 300°C, 305mm Length, Brown Spirit	£4.62
THS090010	-1°C to 51°C, 405mm Length, Blue Spirit, 0.1°C Division	£12.05
THS090040	-1°C to 51°C, 405mm Length, Blue Spirit, 0.2°C Division	£12.89



Pocket Infrared Thermometer

A quick and easy infrared thermometer providing safe temperature measurement where non-contact access is required. Supplied complete with wrist strap, clip-out stamp and storage pouch. Features: User selectable °C or °F Automatic data hold. Auto power off. Low battery indicator.

Code	Description	Price
THZ350020	Pocket Infrared Thermometer	£37.62

ECOtherm Thermometer

The ECOtherm laboratory thermometer is a green spirit thermometer filled with a non toxic expansion liquid. This is a -10/110°C 305mm partial immersion thermometer. The quality and resolution make these an ideal substitute for general purpose mercury thermometers. Each thermometer is fitted with a Brannan non roll end cap which has an integral ring to allow the thermometer to be suspended and is supplied in protective PVC packaging.

Code	Description	Price
THS120010	-10°C to 110°C, 305mm Length, Green Spirit	£1.63





Heavy Duty Stopwatch

A heavy duty stopwatch specifically designed for laboratory use. Features: No clock or alarm function. Large buttons. Lap and split time 1/100th second chronograph. Capacity: 9hrs, 59min, 59secs.

Code	Description	Price
TSW050010	Heavy Duty Stopwatch	£12.14



Digital Count Up/Down Timer

A simple to use count-up or countdown timer. It is ideal for the food trade, laboratories, education and industry. This count up/down timer is easy to program and has a high frequency alarm on expiry of count-down times.

Code	Description	Price
TMR060010	Digital Count Up/Down Timer	£5.92



Economy Stopwatch

Three easy to use button controls. Lightweight and easy to operate. 1/100th second stopwatch. Split/lap time. Hour/min/second display as well as day/month. Includes battery and lanyard.

Code	Description	Price
TMR400011	Economy Stopwatch	£3.00



Bench Timer With or Without External Triggering Contacts

This bench timer has colour coded buttons and a clear LCD display, housed in a robust ABS casing. Timing up to 9 hours, 59 minutes, 59 seconds, resolution 1/100th seconds for 30 minutes and then 1 second thereafter.

Code	Description	Price
TMR640010	With External Triggering Contacts	£21.37
TMR640020	Without External Triggering Contacts	£18.97



School Event Timer

- Uncomplicated 100th second time
- Start/Stop/Reset with no other features
- No alarm
- Colour coded buttons for easy reference (Blue and Red: Start/Stop; Yellow: Reset)
- Times to 9hr, 59m, 59.99s
- Large clear display
- Safety wrist cord (will not fit over head)
- Battery S1154S securely fitted behind back casing
- Size: 60mm x 70mm

Code	Description	Price
TMR350010	School Event Timer	£5.30



Dual Power Timers

These handy sized timers can time up or down to 99 mins and 59 seconds. A beeping alarm is sounded to say the time has been reached. Having dual power functionality (battery/solar) means they are always charged and ready to go.

Code	Description	Price
TMR660020	Dual Power Timers	£26.13

PRACTICAL

Digital Stop Clock

Easy to use as a standard timer or automatically triggered by external devices for start/stop via 4mm jack sockets. This digital stop-clock is a high accuracy timer, with a robust construction ideal for regular use. Colour coded buttons and jack sockets make the timer extremely practical and convenient to use. 15mm LCD display.

Code	Description	Price
TMR040011	Digital Stop Clock	£11.27



Robust



School Stop Clock

Specifically designed for use in schools. This highly accurate quartz stop clock is housed in a robust ABS casing. The two buttons are large and colour coded for clarity. The liquid crystal display is also large and clear. The unit can be used with remote switches, timing gates etc via the 4mm sockets which are located at the rear of the unit.

Code	Description	Price
TSC030010	School Stop Clock	£19.95

Value for money

Beaker Tongs

Plated steel beaker tongs available in either straight or bowed.

Code	Description	Price
TNG100010	150mm, Bowed	£10.39
TNG100030	200mm, Bowed	£11.58
TNG100020	150mm, Straight	£12.17
TNG100040	200mm, Straight	£10.99



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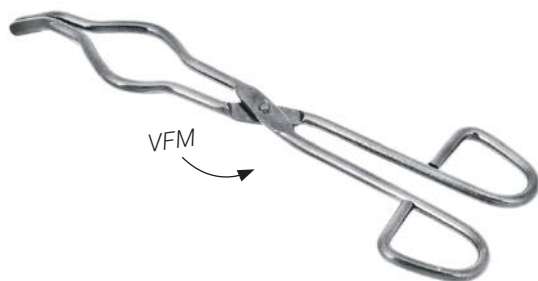


**SILICONE SLEEVES
WHICH REDUCES
RISK BREAKAGE**

Stainless Steel Beaker Tongs

Laboratory Beaker Tongs, stainless steel, with jaws covered with Silicone Sleeves which reduces risk breakage when handling beakers. Holds beakers 100 to 1000ml. Overall length 356mm. Silicone sleeves Operating Temperature: -60°C to +180°C.

Code	Description	Price
TNG070010	356mm Long	£57.67



VFM

Crucible Tongs with Bow

Crucible Tongs made of quality stainless steel. The tongs feature a looped handles, and bowed jaws with flat ends. Can safely grasp hot crucibles, beakers or other apparatus measuring up to 4" in diameter. The tongs measure approximately 8.25" long and 3.75" inches wide when closed.

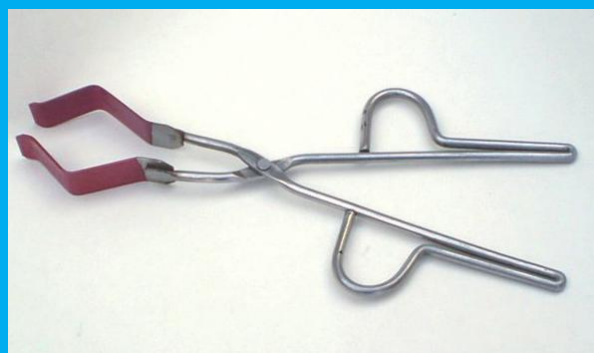
Code	Description	Price
TNG110010	210mm	£1.59



Evaporating Dish Tongs

They can be used to hold or pick up many items, but work best as tongs for picking up a hot evaporating dish up to 125mm diameter.

Code	Description	Price
TNG120010	Evaporating Dish Tongs	£6.90



Flask Tongs

For holding flasks from 100ml up to 2000ml capacity. The jaws are covered with replaceable PVC sleeves. Made of plated steel.

Code	Description	Price
TNG080010	Flask Tongs	£3.54



Silicone Spray

Colourless and non-toxic anti-static lubricant ideal for use on metals, plastics, vinyl, rubber and wood. Safe for use on food machinery. CFC free.

Code	Description	Price
LUB010011	400ml	£8.05



Silicone Grease

Resistant to most chemicals. Stable over temperature range -40 to 200°C. For high vacuum purposes. Must not be used with volumetric glassware because silicone contamination distorts the shape of the meniscus. Colourless, Paste, Odourless.

Code	Description	Price
LUB010011	50g	£8.37



Allen Key Sets

8 piece metric and imperial hexagon key sets manufactured from chrome vanadium steel hardened and tempered, each secured on a key ring type holder.

Code	Description	Price
TOQ040011	Imperial	£4.78
TOQ040020	Metric	£4.78



Brush Set

3 piece set comprising one of each of the following: brass, nylon and stainless steel, to suit a number of applications.

Code	Description	Price
TOQ050010	230mm	£8.37



External Micrometer

Expert Quality, with enamelled frame, heat plates, satin chrome thimble and sleeve. Graduations 0.01mm. Carbide tipped anvils, lock and ratchet stop. Supplied in plastic storage case.

Code	Description	Price
TOQ240010	0-25mm	£34.97



C Clamp

Malleable cast iron frame with chrome plated square thread screw, tommy bar handle and swivel shoe.

Code	Description	Price
TOQ060010	100x60mm	£14.94



Callipers

General purpose calipers with thumb wheel fine adjustment. Can be used for internal, external and depth measurements. Graduations shown in metric (cm/mm) and imperial inch marks.

Code	Description	Price
TOQ230010	115mm	£12.31
TOQ230020	150mm	£14.89



Vernier Calliper with Fine Adjustment

Expert Quality, manufactured from hardened stainless steel. Reading 0.02mm/1/1000". Four way measurement: internal, external, depth and step. Satin scales with fine adjustment. Fine screw adjustment. In plastic storage case.

Code	Description	Price
TOQ230040	0-140mm	£47.58
TOQ230050	0-200mm	£56.86

BEST
SELLER

8 Piece Screwdriver Set

Draper Cabinet Pattern handle screwdrivers with chrome vanadium steel blades, correctly hardened and tempered with sand blasted tips. Some sizes are fitted with a hexagon bolster which enables extra power to be obtained by the use of a spanner. Flat oval colour coded cabinet pattern handles ensure high torque and user comfort. Packed in tray with plastic insert.

Code	Description	Price
TOQ100010	Screwdriver Set	£23.93

QUALITY



9 Piece Screwdriver Set

Draper Cabinet Pattern handle screwdrivers with chrome vanadium steel blades, correctly hardened and tempered with sand blasted tips. Some sizes are fitted with a hexagon bolster which enables extra power to be obtained by the use of a spanner. Flat oval colour coded cabinet pattern handles ensure high torque and user comfort. in plastic carrying case with transparent lid and insert.

Code	Description	Price
TOQ110010	Screwdriver Set	£33.08



Diamond Tipper Engraver Tool

Battery-powered diamond tipped engraver suitable for engraving most surfaces including, glass, ceramics and metals. Supplied with diamond point.

Code	Description	Price
TOQ020010	Engraver Tool	£29.05

SET
OF 6

Needle Files

Needle Files-Set of 6 needle files, comprising flat parallel, flat taper, half round, three square, square and round files. Complete with handles.

Code	Description	Price
TOQ030010	140mm	£7.41



Precision Screwdriver Set

Hardened carbon steel, nickel plated steel bodies with swivel tops. Display packed in plastic case.

Code	Description	Price
TOQ150010	Precision Screwdriver Set	£10.12



Adjustable Spanner

Crescent-type wrenches manufactured from chrome vanadium steel hardened, tempered and chrome plated with mirror polished jaws offset at 22°.

Code	Description	Price
TOQ170010	150mm	£15.51
TOQ170040	300mm	£32.49

SET
OF 2

Screw Holding Screwdriver Set

Expert Quality, satin chrome plated SVCM steel blades, hardened and tempered. With a push - pull sleeve for holding and releasing screws. Square matt black handles manufactured from high impact resistant plastic. Set of 2.

Code	Description	Price
TOQ130010	Screw Holding Screwdriver Set	£8.09



General Purpose Scissors

General Purpose Scissors, 150mm-Stainless steel.
General Purpose Scissors, 175mm-Stainless steel.

Code	Description	Price
DSN140010	150mm	£6.15
DSN140020	175mm	£7.39



Trimming Knife

Retractable pattern metal bodied knife complete with two blades.

Code	Description	Price
TOQ295010N	Retractable Trimming Knife	£7.16



Locking Pliers

Self grip plier manufactured from good quality carbon steel, correctly hardened and tempered with five rivet construction and 'flip - up' release lever, adjusting screw, finished jaws and all plated with bright nickel finish.

Code	Description	Price
TOR420010	Locking Pliers	£7.66



Pliers Set

General purpose pliers set, manufactured from carbon steel hardened, tempered with induction hardened cutting edges for extra durability. PVC dipped handles. Contents: Combination Pliers, Long Nose Pliers and Diagonal Side Cutters.

Code	Description	Price
TOQ310010	General Purpose Plier Set	£23.50



Soldering Iron and Accessories

Soldering irons complete with metal stand and 1.1m (approx.) cable and approved plug. Solder tube, reel and stand available separately.

Code	Description	Price
TOQ080010	Soldering Iron, 25W	£20.16
TOQ080500	Solder, 20g Tube	£3.65
TOQ080520	Solder, Reel 250g	£31.09
TOQ080530	Soldering Iron Stand	£10.45



Wire Strippers

Set Diameter Wire Stripper: Versatile wire stripper with seven individual stripping stations: 0.5, 0.75, 1.0, 1.5, 2.5, 4.0 and 6.0mm. Cushion-grip spring-loaded handles. 150mm long.

Automatic Adjustment Wire Stripper: Steel body with ABS moving handle. Wire stripper and cable cutter hardened and tempered SK5 steel. Strips and cuts single - layer wire from 0.2 - 4mm diameter. Also cuts 11mm wide and strips 14mm wide ribbon cable. Safety guard on wire cutter.

Code	Description	Price
TOQ190020	Set Diameter	£9.80
TOQ190030	Automatic Adjustment	£15.40



ABS Trays

General containers for lab use. The shallow units being useful as an instrument tray, coaster etc, whilst the deeper units can be used as slop trays, sand baths, for example. The larger units can be used as pipette trays. Not autoclavable. All have ridge 'feet' for stability.

Code	Description	Price
TRY080010	200x150x20mm	£6.45
TRY080020	200x150x40mm	£7.24
TRY080030	200x150x80mm	£18.56
TRY080040	300x150x20mm	£7.88
TRY080050	300x150x40mm	£8.29
TRY080060	300x150x80mm	£9.48
TRY080070	250x250x20mm	£8.91
TRY080110	350x250x40mm	£13.21
TRY080150	400x300x80mm	£19.15



Polypropylene Trays

White. Made from high impact polystyrene.

Code	Description	Price
TRY180010	31x24x2.5cm	£8.40
TRY180020	35x25x2.5cm	£10.45
TRY180030	35x25x5.0cm	£12.43
TRY180040	41x30x2.5cm	£13.62
TRY180050	46x35x2.5cm	£18.42



Spirit Level

Moulded from polystyrene with a magnetic strip in the base. Unbreakable all - round reading horizontal, vertical and 45° vials. Incorporates a V groove in the top and a hang hole. Accuracy 1.75mm per 1M = 0.1° in standard position.

Code	Description	Price
TOQ250020	Spirit Level	£7.99

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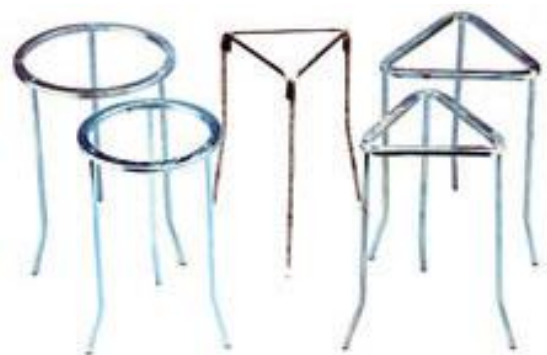

**PACK
OF 5**

Stainless steel

Stainless Steel Tripod

Stainless steel tripod stand. 190mm in height, 125mm inner diameter.

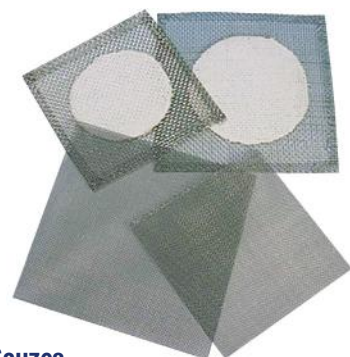
Code	Description	Price
TRP010010	125mm Diameter	£17.95



Zinc Plated Steel Tripod

Manufactured in zinc plated steel with the legs 6 mm diameter. These are riveted in place and bent outwards for stability. 210mm height.

Code	Description	Price
TRP020021	150mm	£11.45


**PACK
OF 10**

Gauzes

Available as plain iron wire gauze or with an asbestos-free ceramic centre in two sizes.

Code	Description	Price
GAU010010	125x125mm, Plain Mesh	£8.24
GAU010020	150x150mm, Plain Mesh	£9.27
GAU020010	125x125mm, Ceramic Mesh Centre	£12.18
GAU020020	150x150mm, Ceramic Mesh Centre	£14.42

Stainless Steel Triangular Tripod

200mm tall with stainless steel triangular top, steel legs and rubber feet. 125mm side-length.

Code	Description	Price
TRP040020N	200x125mm	£6.13


**REMOVABLE WIRE
MESH TO ALLOW
MULTIPLE BURNER HEIGHTS**

Tripod Stand with Gauze

Dual position wire gauze burner stand for use with alcohol burners and micro Bunsen burners. The wire mesh is able to be removed and placed on the top or the side to allow multiple burner heights. Dimensions: 125mm tall (approx.) Sides are 88mm and 100mm (approx.)

Code	Description	Price
TRP050010	Tripod Stand with Gauze	£2.02

Expert Advice

 Our experts are always happy to help, call on: **01902 402 402**

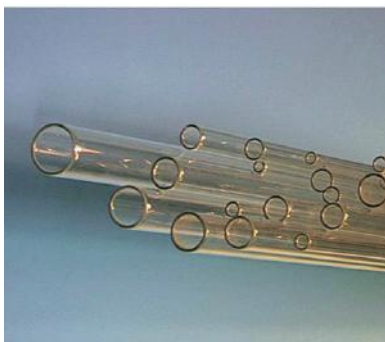
With plastic feet

General Purpose Triangular Tripods

Stainless steel tripod with plastic feet.

Code	Description	Price
TRP030010	120x150mm	£6.28
TRP030020	120x210mm	£6.28
TRP030030	150x210mm	£6.83
TRP030040	150x260mm	£7.83





Soda Glass Tubing

Soda Glass Tubing, 0.5m lengths.

Code	Description	Price
TSG010010	4mm (30pk)	£11.25
TSG010020	5mm (30pk)	£11.25
TSG010030	6mm (30pk)	£11.25
TSG010040	7mm (30pk)	£11.64
TSG010050	8mm (30pk)	£13.97
TSG010060	10mm (30pk)	£14.14
TSG010080	16mm (30pk)	£20.36
TSG010110	26mm (15pk)	£34.29



Red Rubber Tubing

To BS 2775.

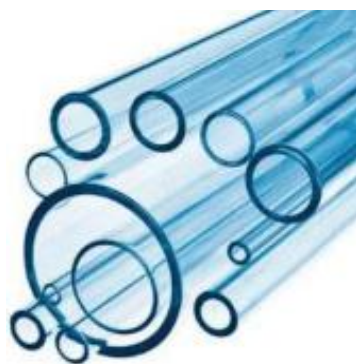
Code	Description	Price
TRR010010	3mm Bore, 0.75mm Wall (10m)	£15.59
TRR010021	5mm Bore, 1.5mm Wall (10m)	£10.74
TRR010030	6.5mm Bore, 1.5mm Wall (10m)	£24.91
TRR010050	10mm Bore, 2.0mm Wall (10m)	£38.83
TRR010060	12.5mm Bore, 2.25mm Wall (5m)	£50.24
TRR010070	16mm Bore, 3.25mm Wall (5m)	£43.26
TRR010090	25mm Bore, 3.25mm Wall (5m)	£73.54



Heavy Wall Red Rubber Tubing

To BS 2775.

Code	Description	Price
TPR010020	5mm Bore, 4mm Wall (5m)	£26.65
TPR010030	6.5mm Bore, 5mm Wall (5m)	£39.45
TPR010040	8mm Bore, 6mm Wall (2m)	£24.22
TPR010050	10mm Bore, 7mm Wall (2m)	£33.39
TPR010060	12.5mm Bore, 8.5mm Wall (1m)	£25.50



Borosilicate Glass Tubing, 0.5m Lengths

Borosilicate glass tubing.
Available in 5mm-50mm.

Code	Description	Price
TBG010010	5mm (30pk)	£20.72
TBG010020	6mm (30pk)	£23.03
TBG010030	7mm (30pk)	£27.04
TBG010040	8mm (30pk)	£24.52
TBG010050	10mm (30pk)	£31.05
TBG010060	12mm (30pk)	£32.93
TBG010070	15mm (30pk)	£29.21
TBG010080	19mm (15pk)	£32.90
TBG010100	24mm (15pk)	£28.46
TBG010110	28mm (6pk)	£26.50
TBG010120	32mm (6pk)	£29.85
TBG010140	40mm (3pk)	£21.35
TBG010150	50mm (3pk)	£31.61



Borosilicate Glass Capillary Tubing

Borosilicate 3.3 Glass Tubing - 0.5m Length.

Code	Description	Price
TCB010011	4 x 0.8mm	£16.10
TCB010021	5 x 1.2mm	£15.22
TCB010031	6 x 1.2mm	£16.21
TCB010041	6 x 2.2mm	£15.34
TCB010051	7 x 1.2mm	£12.55



Bunsen Tubing

High quality Neoprene tubing with reinforced ends for secure connection of bunsen burners to gas taps. Suitable for use with natural and LPG gas burners. Last longer than natural rubber tubing. Supplied in pre-cut lengths and a 8mm bore. Supplied in packs of 10.

Code	Description	Price
704-016	600mm	£44.45
704-017	900mm	£48.85



EnduraFlex Bunsen Tubing

The new ISG square tubing is an affordable and resilient product designed to replace the natural rubber tubing. Will last many times longer than natural rubber tubing Approved for LPG and Natural gas. UV Resistant. Square external profile, will sit flat on the bench. Cost effective.

Code	Description	Price
153-512	8mm Bore, 10m Role	£23.85



EnduraFlex Vacuum Tubing

The new Enduraflex vacuum tubing is an affordable and resilient product designed to replace the natural rubber vacuum tubing. Polymer Blend, will last many times longer than natural rubber tubing. 8mm ID with 6mm wall thickness for extreme vacuum.

Code	Description	Price
153-513	8mm Bore, 5m Role	£31.47

**SCREW CAPS
AVAILABLE
SEPARATELY**

Tall Form Screw Neck Vials

Neutral glass vials without closure.
Please order screw caps separately.

Code	Description	Price
TVL050040	1.75ml (882pk)	£117.65
TVL050060	7ml (399pk)	£72.67
TVL050070	10.5ml (399pk)	£76.24
TVL050090	21ml (231pk)	£57.19
TVL050100	28ml (190pk)	£51.21



**Scan here
and shop
online now**
SciChem.com

Squat Form Rolled Rim Vials

Neutral glass vials without closure. These vials will accept polythene clip on closures or push in plugs. Please ask for details about the push in plugs.

Code	Description	Price
TVL060010	7ml (190pk)	£33.96
TVL060020	10.5ml (190pk)	£35.45
TVL060030	14ml (162pk)	£35.61
TVL060040	21ml (162pk)	£43.00
TVL060050	28ml (140pk)	£41.56



ENDURA-FLEX[®] Square Rubber Tubing from EduLab[®]

The revolutionary **Endura-Flex** tubing is manufactured from a polymer blend which not only has higher resistance to chemicals and UV but will **last a guaranteed 10 times longer than traditional rubber tubing!**

- ✓ Ideal for labs and classrooms
- ✓ Lasts much longer than natural rubber tubing
- ✓ Stretches to replace 8-16mm bore tubing
- ✓ Flexible, non-kink design
- ✓ Approved for LPG and Natural gas
- ✓ UV resistant rubber material
- ✓ Square external profile sits flat on the bench

Order yours today at **SciChem.com**





Simax glassware that conquers the elements



- Top quality ISO 9001 certified
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DATA LOGGING

DYNAMICS SYSTEM/CARTS/LIGHT GATES	178
INTERFACES	180
WIRELESS SENSORS	181
PASPORT SENSORS	187
SOFTWARE/STEM CLUBS	188

PASCO

Transform Science Education with PASCO
Science Lab Equipment & Teacher Resources



SPARKvue

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YOU SEE?
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for a full PASCO
catalogue




Turn over for **AWARD-WINNING** science tools and data logging





Smart Cart - Red/Blue

The Smart Cart is a low-friction dynamics cart with onboard wireless sensors that measure position, velocity, acceleration, force, and rotation. It connects to your devices using Bluetooth® Low Energy wireless technology. It includes a magnetic bumper, force hook, rubber bumper, and a USB charging cable.

Code	Description	Price
PAS100010	Smart Cart Red	£321.44
PAS100020	Smart Cart Blue	£321.44







Free MatchGraph! software
compatible with PASCO smart carts
Available for Windows/Mac, and on
iOS, Android and Chrome devices



Basic Dynamics System

Basic systems: includes track feet, end stops, rod clamp, cart masses.

	Plastic Track 1m	Price	Metal Track 1.2m	Price	Metal Track 2.2m	Price
Plastic Carts	ME-5701	£335.12	ME-5702	£388.47	ME-5703	£575.85
Metal Carts	ME-5704	£485.58	ME-5705	£537.56	ME-5706	£724.96
Smart Carts	ME-5707	£711.28	ME-5708	£764.63	ME-5709	£950.65



Standard Dynamics System

Standard systems: includes Basic package plus spring set, super pulley, angle indicator.

	Plastic Track 1m	Price	Metal Track 1.2m	Price	Metal Track 2.2m	Price
Plastic Carts	ME-5711	£478.74	ME-5712	£529.36	ME-5713	£712.64
Metal Carts	ME-5714	£623.73	ME-5715	£675.72	ME-5716	£857.64
Smart Carts	ME-5717	£843.96	ME-5718	£895.94	ME-5719	£1,077.85

SMART CART AND DYNAMICS TRACK ACCESSORIES

Smart Cart Motor

The Smart Cart Motor is a motor-driven wheel that attaches to the Smart Cart to make it go at a constant velocity, forwards or backwards. In PASCO Capstone or SPARKvue, you can control the motor remotely through its wired connection to the Smart Cart by setting the power on a scale of -100 to +100%.

Code	Description	Price
PS-1247	Smart Cart Motor	£117.63

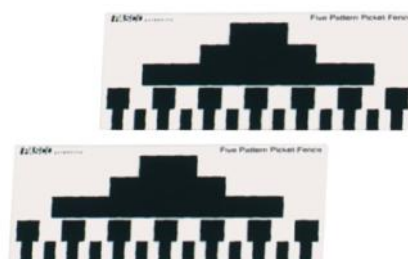


PACK
OF 2

Cart Picket Fence

These 5 pattern cart picket fences mount directly to PASCO's dynamics carts. Ideal for use with light gates. Pack of 2.

Code	Description	Price
PAS020610	Cart Picket Fence	£16.42



Demonstrate basic
principles of motion



Smart Fan

The Smart Fan Accessory can be connected and used with any PASCO cart to demonstrate basic principles of motion. It can be used as a simple fan in manual push button mode, adjusting between low, medium, and high speeds. However, the Smart Fan Accessory was specifically designed for use with the revolutionary Smart Cart. When connected to a Smart Cart a much greater degree of control, programmability, and functionality is available. When using SPARKvue software or app with the Smart Fan Accessory connected to a Smart Cart, a slider control allows for a variable amount of positive or negative thrust. When using PASCO Capstone with the Smart Fan Accessory connected to a Smart Cart the software allows adjustments to the level of thrust, the ability to set start/stop conditions, and even the use of calculations for precise control of the fan.

Code	Description	Price
PAS011800	Smart Fan	£120.37



Vector Display

The Smart Cart Vector Display adds visual vectors to your Smart Cart for Force, Acceleration, or Velocity. Connect to the Smart Cart's accessory port to visualize vectors in real time! The arrows light up proportional to the sensor reading & both magnitude & positive or negative direction.

Code	Description	Price
ME-1246	Vector Display	£135.42

Connect multiple sets
to make a track as
long as you want



PAStack Curved Track

Create hills, valleys and inclines. Molded PAStack system has straight and curved sections that just snap together. Connect multiple sets to make a track as long as you want.

Code	Description	Price
PAS020510	PAStack Curved Track	£117.63



Ballistic Cart Accessory

The Smart Ballistic Accessory mounts to any PASCO dynamics cart for a classic demonstration on the independence of X and Y motion.

Code	Description	Price
ME-1245	Ballistic Cart Accessory	£325.54



COMPATIBLE WITH
SPARKVUE
AND CAPSTONE



850 Universal Interface

The 850 Universal Interface is the most powerful educational lab interface in the world and features the most ports, fastest sampling rates, and unmatched functionality, 4X PASPORT sensor ports, 4X Science Workshop sensor ports, 4X Stereo phone plug ports. It can be used in place of several pieces of lab instrumentation, including oscilloscopes, power supplies, timers, and function generators. It features a USB connection and is only compatible with Capstone software. Recommended for A-Level Physics and above.

Code	Description	Price
PAS040020	850 Universal Interface	£1914.98



PASCO Universal Interface 550

The 550 Universal Interface is fast, powerful, and incredibly affordable. The cost-effective 550 offers half the ports and many of the same features as our 850 Universal Interface, including both Bluetooth and USB connectivity. The 550 Universal Interface includes two PASPORT sensor ports, two digital sensor ports, two analog sensor ports, and a built-in signal generator.

Code	Description	Price
PAS080010	PASCO Universal Interface 550	£950.65



SPARKlink Air Interface

The SPARKlink Air allows students and teachers to connect any of PASCO's 70+ PASPORT sensors to their device via USB or Bluetooth. Compatible with both SPARKvue and Capstone, and supports data collection on Bluetooth iOS and Android devices. Added features include in-built Voltage Sensor and Fast Response Temperature Probe.

Code	Description	Price
PAS010021	SPARKlink Air Interface	£403.51



Airlink Interface

The AirLink Interface connects PASPORT sensors to a Mac or Windows computer, Chromebook, iPad, tablet, or smartphone via Bluetooth or USB connection. The USB cable is included for charging ideally through a usb charging block and data connection to your computer.

Code	Description	Price
PAS200010	Airlink Interface	£113.53

DID YOU KNOW?

PASCO's wireless sensors do not require interfaces, making them our most affordable datalogging sensors yet. Skip to page 141 to explore our full range of wireless sensors.

Pasco Spark LXi2 Data Logger

A Bluetooth, handheld datalogger that enables students to connect wired and wireless sensors, collect data, generate graphs, and analyse results. It is durable, splash-proof, and works seamlessly with PASCO sensors. The SPARK LXi2 has four virtual ports for Wireless Sensors, two physical ports for PASPORT sensors, and two ports for the included Voltage Probe and Fast Response Temperature Probe. It can be used with PASCO Wireless Sensors, wired PASPORT sensors, the SPARKlink Air, and the 550 Universal Interface.

Code	Description	Price
PS-3600	Pasco Spark LXi2 Data Logger	£972.32

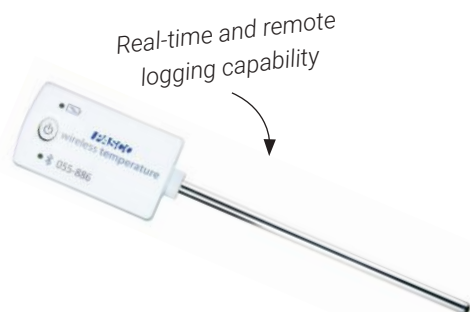


SPARK LXi Charging Station

These convenient charging stations have a wire rack to hold the dataloggers and multiple charging cables, so a complete set of SPARK LXi dataloggers can be charged from one power connection to the wall. The charging station is built into a Grannells case (size F3). Can simultaneously charge up to 6 SPARK LXi dataloggers.

Code	Description	Price
PS-3602	SPARK LXi Charging Station	£302.28





Wireless Temperature Sensor

Welcome to the modern thermometer. The Wireless Temperature Sensor transmits live data and allows students to continuously monitor, log, and plot temperature measurements on nearly any device. When lab-time ends but the experiment continues, students can set the sensor to log data autonomously for days, weeks, or months, then download it for analysis later. This durable, wireless sensor features a stainless steel probe for the most demanding of applications, as well as a battery that lasts over a year. It can be used in a wide array of experiments and activities because it measures small, but significant temperature changes produced by chemical reactions, convection currents, and even skin temperatures.

Code	Description	Price
PAS200530	Wireless Temperature Sensor	£302.28

Wireless Load Cell

The Wireless Load Cell and Accelerometer is designed to measure loads in all PASCO Structures Systems. It is particularly useful for measuring vibrations because it includes an accelerometer and has no wires to impede movement.

Code	Description	Price
PS-3216	Wireless Load Cell	£179.18



Wireless Temperature Link

The Wireless Temperature Link enables wireless connection for any PASCO temperature probe with a 3.5-mm connection. This wireless temperature sensor is compatible with our fast response temperature probe (1 included) that connects to the front of the sensor.

Code	Description	Price
PS-3222	Wireless Temperature Link	£146.36



Wireless Sound Sensor

The PS-3227 Wireless Sound Sensor is two sensors in one wireless package: a sound wave sensor capable of measuring relative changes in sound pressure level as a function of time, and a sound level sensor with both dBA and dBC-weighted scales.

Code	Description	Price
PS-3227	Wireless Sound Sensor	£165.50



PASCO Wireless Light Sensor

PASCO Wireless Light Sensor-PASCO's most versatile and most cost effective light sensor ever, with a variety of measurements for the Science classroom that is unmatched. The Wireless Light Sensor features two separate apertures - one for ambient measurements and the other for directional light measurements. The ambient sensor measures illuminance (lux), irradiance (W/m²), UVA, UVB and UV index. The spot aperture measures light level and has colour detection with channels for the relative intensity of Red, Green, Blue light and the ability to sum them for the level of White light. Typical applications: Studying solar energy= . Monitoring UV light levels and ways to limit exposure. Reflection, absorption and transmission of light through clear, opaque and different coloured translucent mediums. Investigating polarisation and reflectivity. Modelling planetary motion. Verifying the inverse square law Specification: Sensing element: Dual 5 channel radial photodiodes Spectral response: Approx. 300 1100 nm; UVA (350 375 nm); UVB (320 340nm) Measurement options: Light intensity, RGB, UVA, UVB, UV index Range: Approx. 0 130,000 lux Maximum sample rate: Ambient 2 Hz; Spot 20 Hz Key features: No interface required sensor connects direct to computer/device .Bluetooth 4.0 connectivity Remote logging capability using in-built memory. Compatible with any current model Mac, iPad, iPhone, Android tablet or Android phone. Windows computers/tablets, Chromebooks and older Macs may require the USB Bluetooth Adapter (PAS200020) to connect to this sensor. Please consult our Customer Services department for any compatibility enquiries.

Code	Description	Price
PAS200570	PASCO Wireless Light Sensor	£140.88



Wireless Sensor Voltage

PASCO Wireless Voltage Sensor-Ideal for exploring the fundamental concepts of electricity and investigating circuit concepts. Measure voltages of up to 15 V with built-in protection for the sensor against overload. The Wireless Voltage Sensor includes shrouded-banana to alligator-clip test leads, one red and one black. Combine with the Wireless Current Sensor to explore Ohm's Law, series and parallel circuits and much more. Specification: Two ranges: 15 V, 5 V Resolution: 7 mV (À15 A range); 2 mV (V range) Maximum sample rate: 1 kHz via Bluetooth, 100 kHz via USB Battery: Rechargeable lithium polymer Key features: No interface required sensor connects direct to computer/device .Bluetooth 4.0 and USB connectivity .Remote logging capability using in-built memory. Compatible with any current model Mac, iPad, iPhone, Android tablet or Android phone. Windows computers/tablets, Chromebooks and older Macs may require the USB Bluetooth Adapter (PAS200020) to connect to this sensor. Please consult our Customer Services department for any compatibility enquiries. Includes: Shrouded-banana to alligator-clip test leads, USB charging cable.

Code	Description	Price
PAS200550	Wireless Sensor Voltage	£132.68



Wireless Sensor Current

PASCO Wireless Current Sensor-Measure currents of up to 1 A with built-in protection for the sensor against overload and transmit the collected data wirelessly to your computer/device. The wide current range allows for introductory and advanced explorations of the fundamental concepts of electricity and basic circuits. Combine with the Wireless Voltage Sensor to explore Ohm's Law, series and parallel circuits and much more. Specification: Two ranges: 1 A, 0.1 A Resolution: 0.2 mA (1 A range); 0.02 mA (0.1 A range) Maximum sample rate: 1 kHz via Bluetooth, 100 kHz via USB Battery: Rechargeable lithium polymer Key features: No interface required sensor connects direct to computer/device. Bluetooth 4.0 and USB connectivity. Remote logging capability using in-built memory. Compatible with any current model Mac, iPad, iPhone, Android tablet or Android phone. Windows computers/tablets, Chromebooks and older Macs may require the USB Bluetooth Adapter (PAS200020) to connect to this sensor. Please consult our Customer Services department for any compatibility enquiries. Includes: USB charging cable

Code	Description	Price
PAS200580	Wireless Sensor Current	£154.56



Wireless Force Acceleration Sensor

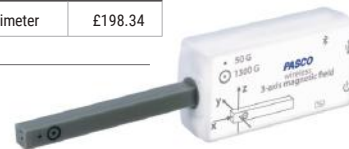
The Wireless Load Cell and Accelerometer is designed to measure loads in all PASCO Structures Systems. It is particularly useful for measuring vibrations because it includes an accelerometer and has no wires to impede movement.

Code	Description	Price
PAS200500	Wireless Force Acceleration Sensor	£198.34

Wireless Acceleration/Altimeter

The Wireless 3-Axis Acceleration/Altimeter can remotely log acceleration in three dimensions and altitude, making it ideal for recording data during roller coaster rides.

Code	Description	Price
PS-3223	Wireless Acceleration/Altimeter	£198.34



Pasco Wireless Magnetic Field Sensor

This 3-Axis Magnetic Field Sensor can sense the Earth's magnetic field, magnetic fields from current-carrying coils, and permanent magnets. There are two ranges: ± 50 gauss and ± 1300 gauss. This sensor is primarily for static fields.

Code	Description	Price
PS-3221	Pasco Wireless Magnetic Field Sensor	£164.14

Wireless Rotary Motion Sensor

The Wireless Rotary Motion Sensor measures angle, angular velocity, and angular acceleration, as well as their linear equivalents. The included three-step pulley allows different torques to be applied, rotating a rigid system at different rates of acceleration.

Code	Description	Price
PS-3220	Wireless Rotary Motion Sensor	£346.06



2-Axis Wireless Force Platform

Code	Description	Price
PS-3230	2-axis Wireless Force Platform	£1573.02



Wireless Drop Counter

Code	Description	Price
PS-3214	Wireless Drop Counter	£202.44



Wireless CO₂ Sensor

Use this wireless sensor to measure the concentration of CO₂ gas in a closed system or open environment. CO₂ data can be logged directly on to the device for long-term life science and environmental science studies. Typical applications: Photosynthesis Respiration Carbon cycling Specification: Range: 0-100,000 ppm Resolution: 2 ppm Accuracy: 0 to 1000 ppm: 100 ppm; 1000 to 10,000 ppm: 5% of reading + 100 ppm 10,000 ppm to 50,000 ppm: 10% of reading 50,000 to 100,000 ppm: 15% of reading Battery: Rechargeable lithium polymer Key features: No interface required sensor connects direct to computer/device. Bluetooth 4.0 and USB connectivity. Remote logging capability using in-built memory. Compatible with any current model Mac, iPad, iPhone, Android tablet or Android phone. Windows computers/tablets, Chromebooks and older Macs may require the USB Bluetooth Adapter (PAS200020) to connect to this sensor. Please consult our Customer Services department for any compatibility enquiries. Includes: 250 ml sampling bottle, USB charging cable.



Code	Description	Price
PAS011660	Wireless CO ₂ Sensor	£376.16



Wireless Optical Dissolved Oxygen Sensor

The Wireless Optical Dissolved Oxygen (ODO) Sensor is ideal for monitoring DO₂ in the lab or field. The Wireless Optical DO Sensor contains three different sensors. In addition to the dissolved oxygen sensor, it also includes sensors for measuring atmospheric pressure and water temperature. The optical technology is accurate, fast, and does not require stirring, filling solutions, warm-up, or frequent calibration. When equipped with the included cover, the sensor has a waterproof design and is submersible to a depth of 10m.

Code	Description	Price
PS-3224	Wireless Optical Dissolved Oxygen Sensor	£584.07

PASCO Wireless Blood Pressure

PASCO's Wireless Blood Pressure Sensor allows students to quickly and easily measure both systolic and diastolic arterial blood pressure (mmHg) as well as heart rate (pulse in bpm).

Quick and easy to use



Code	Description	Price
PS-3218	PASCO Wireless Blood Pressure	£194.24



accurate and easy to use

Wireless Oxygen Gas Sensor

The Wireless Oxygen Gas Sensor measures gaseous concentrations as well as humidity and air temperature for a range of biology, environmental science, and physiology activities. The Wireless Oxygen Gas Sensor is accurate and easy to use, making it the perfect sensor for studying photosynthesis, respiration, and oxygen cycling in a closed or open system. With remote logging, experiments can go beyond the lab period and easily give students hours or days of data for analysis. In addition to measuring oxygen gas levels, the Wireless Oxygen Gas Sensor also contains sensors to measure ambient temperature and humidity.

Code	Description	Price
PS-3217	Wireless Oxygen Gas Sensor	£372.06



Wireless Weather Sensor

The Wireless Weather Sensor is an all-in-one instrument for monitoring complex environmental conditions. It houses several sensing elements within a single unit to provide 19 different measurements. Use the sensor in logging mode with the Weather Vane Accessory (available separately) for long-term monitoring, or use it as a handheld instrument to study microclimates and record ambient conditions relevant to environmental phenomena.

Code	Description	Price
PAS122010	Wireless Weather Sensor	£186.02



Wireless Heart Rate Sensor

The Wireless Exercise Heart Rate Sensor has a chest strap and will transmit data wirelessly up to 10m away! The electrode belt fits around the ribcage (worn against the skin for best results, but can be worn over a shirt if a drop of saline solution is applied under the electrodes). Data wirelessly transmits the cardiac signal to the sensor.

Code	Description	Price
PS-3207	Wireless Heart Rate Sensor	£153.04

**EASILY MEASURE
HEART RATE****Wireless Hand-Held Heart
Rate Sensor**

With these wireless hand grips, conducting physiology labs on the cardiovascular system or homeostasis is easier than ever before. Continuously monitor heart rate during exercise, or use the sensor to take initial and final measurements with fast and reliable heart-rate detection.

Code	Description	Price
PS-3206	Wireless Hand-Held Heart Rate Sensor	£184.20



Real-time data
collection

**Wireless EKG Sensor**

Heart Rate data is reported in beats per minute (BPM), while the voltage (mV) detected from cardiac contractions is intuitively displayed in an EKG trace. The sensor can also be used to study nerve impulses that affect muscles other than the heart, enabling students to study a wider range of physiological phenomena, including reflexes, muscle fatigue and more.

Code	Description	Price
PS-3236	Wireless ECG Sensor	£246.50

NEW**Wireless Spirometer**

The Wireless Spirometer Sensor makes it safe and easy for students to collect respiratory measurements, including flow rate, pressure, and lung volume. Ideal for studies in health and human physiology, the Wireless Spirometer Sensor streamlines experiments by providing students with real-time data, interactive graphs, and analysis tools on virtually any device. The disposable mouthpieces are designed for use with a single student and feature exchangeable filters that protect the sensor from particulates to ensure long-term accuracy and hygienic use. Product includes three mouth piece and pre-filters. Additional mouthpieces and pre-filters are available in convenient packs of ten.

Code	Description	Price
PS-3234	Wireless Spirometer	£345.38

Smart Cart - Red/Blue

The new Wireless Smart Cart is the ultimate tool for your Physics lab, with built-in sensors that measure force, position, velocity, acceleration and rotation. The Smart Cart can make these measurements on or off a dynamics track and transmit the data wirelessly over Bluetooth.

Code	Description	Price
PAS100010	Smart Cart Red	£321.44
PAS100020	Smart Cart Blue	£321.44



Counts beta, gamma
and alpha radiation
particles

**PASCO Wireless Geiger Counter**

The PASCO Wireless Geiger Counter counts beta, gamma and alpha radiation particles as they enter the Geiger-Müller detector tube inside the counter. Designed for easy mounting, the Geiger Counter provides superior position control in inverse square law labs, as well as an audible beep to indicate the detection of ionizing radiation. The front plastic snout fits conveniently inside the NU-3344 Sample Holder stand (available separately).

Code	Description	Price
PAS320380	PASCO Wireless Geiger Counter	£309.12

Wireless Pressure Sensor

With the new Wireless Pressure Sensor you can make accurate and consistent measurements of gas pressure, regardless of ambient conditions, and explore how chemical reactions affect gas pressure. Reports pressure measurements in commonly used units: kPa, atm, psi, mmHg, N/m². Typical applications: Use the included graduated syringe to study Boyle's Law (inverse relationship between gas volume and pressure). Measure transpiration rates. Measure osmosis and pressure changes inside a model cell. Measure changes in elevation. Measure chemical reaction rates. Add the Wireless Temperature Sensor to investigate the empirical gas laws. Specification: Range: 0-400 kPa Resolution: 0.1 kPa Accuracy: 1 kPa Maximum sample rate: 1000 Hz Key features: No interface required sensor connects direct to computer/device. Rechargeable lithium-polymer battery (included). Bluetooth 4.0 and USB connectivity. Remote logging capability using in-built memory. Compatible with any current model Mac, iPad, iPhone, Android tablet or Android phone. Windows computers/tablets, Chromebooks and older Macs may require the USB Bluetooth Adapter (PAS200020) to connect to this sensor. Please consult our Customer Services department for any compatibility enquiries.

Includes: 2 feet of polyurethane plastic tubing, 1 tube connector, 2 male barbed luer locks, 1 female barbed luer lock, 1 60 cc syringe, USB cable for charging. Pressure Sensor Accessories Kit A set of tubing and connectors for spares and add-ons. Complete in a 9 compartment box for storage. This optional accessory includes: 6 feet of polyurethane tubing (1/8 x dia), 6 plastic tees for 1/8 x tubing, 12 tubing connectors, 6 male luer locks, 6 one way stop cocks, 6 non-valved coupling inserts.

Code	Description	Price
PAS200520	Wireless Pressure Sensor	£172.34



Expert Advice

Our experts are always happy to help, call on: **01902 402 402**



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and shop
online now
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PASCO Wireless Motion Sensor

Uses ultrasound to measure the position, velocity & acceleration of objects, ranging from 15cm to 4.0m away. With both Bluetooth & USB connectivity, this easy-to-use sensor enables students to take turns measuring distance, while the class observes their motion materializing as a graph in real time.

Code	Description	Price
PS-3219	PASCO Wireless Motion Sensor	£198.34



PASCO Wireless Smart Light Gate

The Wireless Smart Gate is a multi-purpose photogate. It has dual photogate beams spaced at 1.5 cm to accurately measure speed and velocity. The built-in laser switch (when used with any laser) allows you to time objects too large to fit through the arms of the photogate. The integrated slot on the arm receives photogate tape that also helps measure the movement of larger and faster objects, like model rockets. The auxiliary port is for adding an additional photogate head or Time-of-Flight Accessory.

Code	Description	Price
PS-3225	PASCO Wireless Smart Light Gate	£153.20



**BEST
SELLER**



Wireless Force Platform

The Wireless Force Platform can be used to measure the static weight of a structure or person, the dynamic vertical forces created when moving or jumping, or the forces associated with the impact of falling objects. Simply place the platform on a floor or tabletop to measure vertical force, or mount it to a wall to measure horizontal force.

Code	Description	Price
PS-3229S	Wireless Force Platform	£1094.27



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Measures the
absorbance and
transmittance of six
different wavelengths

Wireless Colorimeter

The Wireless Colorimeter simultaneously measures the absorbance and transmittance of six different wavelengths. The sensor can be used to study Beer's Law (absorbance vs. concentration), enzyme activity, photosynthesis, and the rates of chemical reactions (absorbance vs. time). After a simple calibration, students can quickly begin viewing live measurements as they materialize across the visible spectrum at 650 nm (red), 600 nm (orange), 570 nm (yellow), 550 nm (green), 500 nm (blue), and 450 nm (violet). This sensor also functions as a high-quality turbidimeter for water quality analysis. Rather than simply measuring transmitted light, the Wireless Colorimeter and Turbidity Sensor measures light scattered at a 90 degree angle from the sample, resulting in accurate and repeatable measurements. Additionally, the internal housing for the cuvette is opaque, which limits ambient light interference to preserve accuracy.

Code	Description	Price
PAS122030	Wireless Colorimeter	£228.43



Wireless pH Sensor

The Wireless pH Sensor is a must-have for any chemistry, biology, or environmental science course. Equally capable in the lab or field, the sensor eliminates the hassle of cables, reducing spills and improving safety. Plus, it rarely requires charging; the sensor's coin cell battery lasts for 2-3 years in most labs and costs about one dollar to replace. It can transmit data in real time, or store data for days when continuous monitoring is required. The Wireless pH Sensor enhances countless activities, including acid-base titrations, investigations into household chemicals, analyses of chemical reactions, water quality studies, and much more.

Code	Description	Price
PAS200510	Wireless pH Sensor	£138.14



Wireless Soil Moisture Sensor

The Wireless Soil Moisture Sensor measures the volumetric water content (%VWC) of soil, reporting data in real time or storing it onboard the sensor's memory for long-term experiments. Durable and easy to use, the Wireless Soil Moisture Sensor is the perfect tool for monitoring controlled experiments in the classroom and long-term experiments outdoors.

Code	Description	Price
PS-3228S	Wireless Soil Moisture Sensor	£186.02

STUDY BEER'S LAW AND REACTION KINETICS



Wireless Spectrometer

The Wireless Spectrometer from PASCO is specifically designed for introductory chemistry, biology, and physics labs. It pairs effortlessly with student devices (Mac®, Win®, Chromebook™, iPad® and Android™ tablets) via Bluetooth® or USB and includes free PASCO Spectrometry Software for easy operation. Scan times are fast, enabling students to gather absorbance spectra across the visible spectrum in under a second. After specifying a target wavelength, students can easily select a software setting to study concentrations (Beer's Law), track rates of reactions, or investigate emission spectra using the optional Fiber Optic Cable accessory.

Code	Description	Price
SPE500010	Wireless Spectrometer	£767.35



Wireless Polarimeter

The Wireless Polarimeter is ideal for introductory experiments in Organic and Biochemistry, where chiral compounds are of special interest. Determine optical rotation and use the rotation data to calculate the concentration of a chiral sample.

Code	Description	Price
PS-3237	Wireless Polarimeter	£859.00



*specifically designed
for use in studying
gas laws*

Absolute Pressure/Temperature Sensor

PASCO Absolute Pressure Temperature Sensor-This multi-sensor is specifically designed for use in studying gas laws, and can directly measure temperature and absolute gas pressure. The included thermistor temperature probe has both a fast response and very low thermal mass. Typical applications: Extrapolate absolute zero Explore Gas Laws (Ideal, Charles's, Boyle's) Specification: Pressure: 0 to 700 kPa with ± 2 kPa accuracy, 0.1 kPa resolution and 1 kPa repeatability (displays pressure in kPa, N/m², and psi) Maximum sample rate: 100 Hz Temperature with included fast response probe: -10 to 70°C with $\pm 0.5^\circ\text{C}$ accuracy (displays temperature in $^\circ\text{C}$, $^\circ\text{F}$ and K. Includes: Fast response temperature probe, 60 cc syringe, tubing and quick-release connectors.

Code	Description	Price
PAS010850	Absolute Pressure/Temperature Sensor	£302.28



Voltage-Current Sensor

PASCO Voltage Current Sensor-Measure both voltage and current simultaneously with PASCO's Voltage/Current Sensor. With overload protection, audible overload notification and automatic reset this sensor provides an ideal student measurement tool. Typical applications: Study circuit properties for both series and parallel electrical circuits. Study the relationship of voltage and current in series-parallel circuits (Ohm's Law) Measure power used by an electrical device ($P = IV$) Measure resistance of any circuit element ($R = V/I$) Specification: Voltage range: 10 V, resolution of 0.005 V Current range: 1 A, resolution of 0.5 mA Current channel series resistance: 0.6 ohms, < 0.9 ohms at room temperature Maximum common mode voltage: 10 V Maximum sample rate: 1000 Hz Voltage input impedance: 2 Includes: 2 pairs of voltage leads and 1 pair of alligator clips.

Code	Description	Price
PAS010980	Voltage-Current Sensor	£232.53

Accessories

Code	Description	Price
PS-2143	Quad Temperature Sensor	£302.04
PAS010960	Non-Contact Temperature Sensor	£99.85
PS-2130	Pasport Flow Rate/Temperature Sensor	£251.69
PS-2195	Pasport Salinity Sensor	£299.57
PS-2151	Pasport Thermocline Sensor	£942.45

**HIGH ACCURACY
AND RESOLUTION**



NEW

UV-Vis Spectrometer

The SE-3607 is an easy-to-use, wide range UV-Vis spectrometer that delivers fast, accurate and reliable performance for routine analyses in chemistry and biochemistry teaching labs. With USB connectivity and cross-platform Spectrometry Software, the PASCO UV-Vis Spectrometer improves collaboration between lab members, enabling data collected on a computer or laptop to be analyzed on tablets, iPads, and Chromebooks*. Additional accessories, such as the UV-Vis Fiber Optic Kit, can be used to extend the spectrometer's capabilities for the analysis of emission spectra, light sources, and the classification of lasers.

Code	Description	Price
SE-3607	Wireless UV-Vis Spectrometer	£3590.58



Capstone Software

Recommended for A-level Physics and above. PASCO Capstone is the most advanced data collection software in science education. Capstone is designed to handle large data sets, high-speed sampling, and customized preferences to fit the needs of your lab.

- ✓ Extra features such as video analysis, advanced data analysis tools
- ✓ Available on Win/Mac only · QR code/link to download free trial of software - Capstone Software - Downloads | PASCO



Download
60-day free
trial here

Code	Description	Price
PAS040010	Capstone single user	£233.89
UI-5401-DIG	Capstone single user digital download	£233.89
PAS040015	Capstone site	£1,024.52
UI-5400-DIG	Capstone site digital download	£1,198.95

SPARKvue



Available on Win/Mac, iOS, Chrome and Android devices. SPARKvue makes data collection, analysis, and sharing quick and easy on every platform. Compatible with all of PASCO's wireless and PASPORT sensors, students can quickly set up their lab, or use a built-in Quick Start Lab and begin collecting data immediately. SPARKvue is for all sciences and grade levels.

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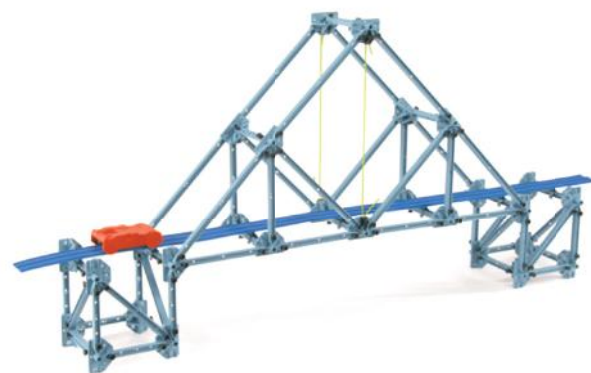
Code	Description	Price
PAS010035	SPARKvue single user license	£160.04
PS-2401-DIG	SPARKvue single user license digital download	£189.95
PAS010030	SPARKvue site license	£450.03
PS-2400-DIG	SPARKvue site license digital download	£355.74

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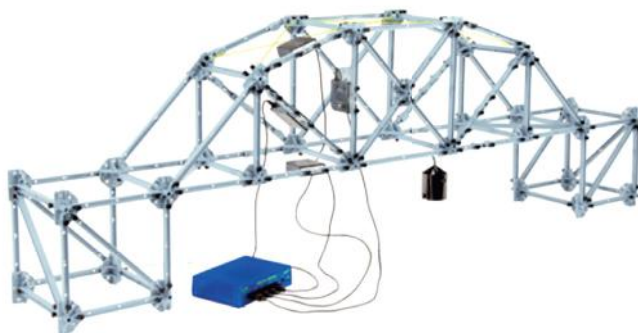
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PASCO Bridge Set

Contains the materials needed to build larger trusses and bridges, as well as a flexible Road Bed and Car for studying dynamic loading as the car traverses the bridge. Even build roller coasters! Special cord locks allow tensioning of cord (cables) for cross-bracing. A flexible plastic road bed clips to the cross-beams and, using load cells, the tension and compression of each element can be displayed in real time.

Code	Description	Price
XDS040020	PASCO Bridge Set	£532.10



Advanced Structures Set

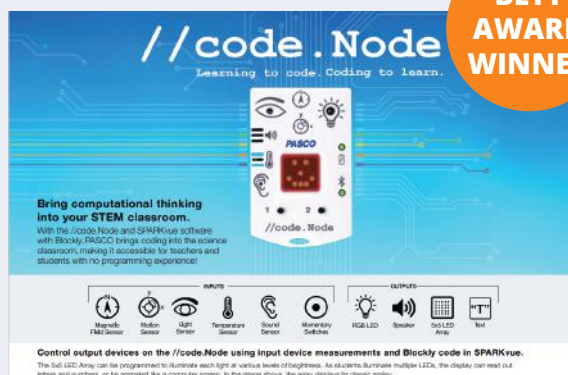
The Advanced Structures Set includes additional components for building a wider variety of structures. Build larger trusses, bridges, and even a working catapult! The included axles and pulleys make it possible to build working cranes, cars, and other structures listed within the Advanced Structures Kit Manual.

Code	Description	Price
XDS040030	Advanced Structures Set	£984.84

Code Node

The Code.Node is a turnkey coding solution that combines real-world sensor inquiry, Blockly coding, and live data displays to drive computational thinking in STEM learning. It includes six interactive sensors and four device outputs that measure and respond to phenomena using code created in SPARKvue or Capstone software. Today's students live in a digital world full of sensors and devices driven by code. From automatic nightlights to emergency braking systems, sensors play an integral role in everyday life. With the Code.Node and Blockly coding, students can learn about sensors, their applications, and the code that controls them. Each Code.Node activity challenges students to create an interactive program with external responses that bring their code beyond the screen to the real world.

Code	Description	Price
PS-3231	Code Node	£157.30



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WINNER**





STORAGE SOLUTIONS

GRATNELLS STORAGE TRAYS	190
TRAY INSERTS	191
TROLLEYS	192
FRAMES	193
CABINETS	194



GRATNELLS STORAGE TRAYS



TRAY INSERTS



TROLLEYS



CABINETS

*Gratnells*

Gratnells Storage Trays

Gratnells iconic school tray found in classrooms around the world. Available in a range of colours.

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**ALL TRAYS FIT
STANDARD
SCHOOL FURNITURE**

Fully recyclable

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passed for heavy
educational use

**BEST
SELLER**

Shallow Tray

Code	Description	Price
TRY060010	75x312x427mm	£5.13
TRY060020	75x312x427mm	£5.13
TRY060030	75x312x427mm	£5.13
TRY060040	75x312x427mm	£5.13
TRY060050	75x312x427mm	£5.13
TRY060060	75x312x427mm	£5.13
TRY060070	75x312x427mm	£5.13
TRY060090	75x312x427mm	£5.13
TRY060100	75x312x427mm	£5.13
TRY060120	75x312x427mm	£5.13

Extra Deep Trays

Code	Description	Price
TRY420010	430x312x225mm	£9.92
TRY420020	430x312x225mm	£9.92
TRY420030	430x312x225mm	£9.92
TRY420040	430x312x225mm	£9.92

Deep Tray

Code	Description	Price
TRY070010	427x312x150mm	£7.42
TRY070020	427x312x150mm	£7.42
TRY070030	427x312x150mm	£7.42
TRY070040	427x312x150mm	£7.42
TRY070050	427x312x150mm	£7.42
TRY070060	427x312x150mm	£7.42
TRY070070	427x312x150mm	£7.42
TRY070100	427x312x150mm	£7.42
TRY070110	427x312x150mm	£7.42
TRY070120	427x312x150mm	£7.42

Jumbo Tray

Code	Description	Price
TRY430010	430x312x300mm	£12.23
TRY430020	430x312x300mm	£12.23
TRY430030	430x312x300mm	£12.23
TRY430040	430x312x300mm	£12.23

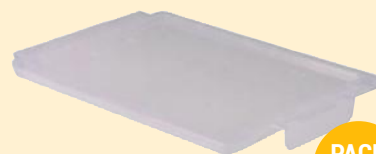
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Grass Green 10	Charcoal Grey 15	Maroon 16	Midnight Blue 17	Light Grey 19	Jet Black 21	Pastel Blue 22	Pastel Yellow 25
Cyan Blue 26	Silver 27	Solid Lime 35	Jolly Lime 36	Cornflower Blue 38	Tangerine 41	White 47	

Translucent and tints

Translucent 20	Kiwi Jelly 29	Strawberry Jelly 30	Lemon Jelly 31	Grape Jelly 32	Blueberry Jelly 33
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Lids and inserts also available



**PACK
OF 6**

Translucent Clip On Lid for F Range Tray

Code	Description	Price
LF1P6	32x284x430mm	£58.48

Tray Foam Inserts

A useful foam insert that allows you to carefully store lab glasses. Available in bulk or packs of 6. Fits shallow (F1) and deep (F2) trays only. For use with adult glasses. Compartments measurements are 25mm by 50mm.



TRY070501



TRY070521

A USEFUL FOAM INSERT THAT
ALLOWS YOU TO CAREFULLY
STORE YOUR LAB BOTTLES

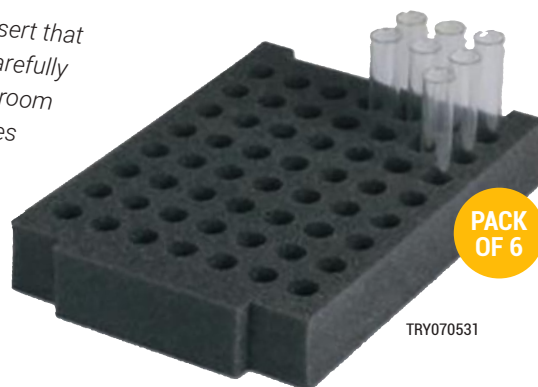


TRY070511



TRY070561

A useful foam insert that
allows you to carefully
store the classroom
stop-watches



TRY070531

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storage visit

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Code	Description	Price
TRY070501	A useful foam insert that allows you to carefully store your lab bottles. Available in bulk or packs of 6. Fits shallow (F1) and deep (F2) trays only. Insert holes are 48mm in diameter.	£6.52
TRY070511	A useful foam insert that allows you to carefully store the classroom calculators. Bulk purchase or packs of 6. Fits shallow (F1) and deep (F2) trays only. Compartment measurements are 7mm by 65mm.	£6.52
TRY070521	A useful foam insert that allows you to carefully store the classroom stop-watches. Sold in packs of 6. Fits shallow (F1) and deep (F2) trays only. Compartment measurements 15mm by 50mm.	£6.52
TRY070531	A useful foam insert that allows you to carefully store lab test tubes. Available in bulk or packs of 6. Fits shallow (F1) and deep (F2) trays only. Compartments measurements are 24mm in diameter.	£6.52
TRY070541	A useful foam insert that allows you to carefully store lab test tubes. Available in bulk or packs of 6. Fits shallow (F1) and deep (F2) trays only. Compartments measurements are 24mm in diameter.	£6.52
TRY070551	A useful foam insert that allows you to carefully store lab test tubes. Available in bulk or packs of 6. Fits shallow (F1) and deep (F2) trays only. Compartments measurements are 24mm in diameter.	£6.52
TRY070561	This clever foam insert has squares scored into it - so you just need to pop out some foam to make exactly the shape of insert you need. So whatever irregular shaped items you need to store safely, all you need to do is make a custom shape in the insert and it can be tidied away safely and securely.	£6.52



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Double width Callero Plus Trolley

Callero Plus is our new range for School science storage. These attractive trolleys have 33% more storage space than our standard trolleys and have larger castors for added stability. They are available in double or treble width with a durable silver finish and a selection of tray sizes to suit your requirements. Callero Plus is ideal for transporting your class science equipment between classroom and preroom.

Code	Description	Price
613-120	H-885mm (1065mm with handle) x W-690mm x D-430mm	£497.25
613-121	H-885mm (1065mm with handle) x W-690mm x D-435mm	£329.60
613-122	H-885mm (1065mm with handle) x W-690mm x D-435mm	£322.80



Easy to manoeuvre



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Treble width Callero Plus Trolley

Callero Plus is our new range for School science storage. These attractive trolleys have 33% more storage space than our standard trolleys and have larger castors for added stability. They are available in double or treble width with a durable silver finish and a selection of tray sizes to suit your requirements. Callero Plus is ideal for transporting your class science equipment between classroom and preroom.

Code	Description	Price
613-124	H-885mm (1065mm with handle) x W-1020mm x D-435mm	£614.88
613-125	H-885mm (1065mm with handle) x W-1020mm x D-435mm	£432.66
613-126	H-885mm (1065mm with handle) x W-1020mm x D-435mm	£425.73

Perfect for moving items between classrooms



Gratnells Rover All-Terrain Cart Set

Tough and practical, the Gratnells Rover has been designed to carry trays over any terrain and help you move heavy loads around with ease. Whether you need to take beanbags and bottled water to the field on sports day or a class full of iPads to an after school club the Rover is ideal for transporting anything you need, even up and down stairs.

Code	Description	Price
TLY300010	Set 05 Silver with 2 Jumbo F3 Trays Tropical Orange	£328.88
TLY300020	Set 03 Silver with 3 Deep F2 Trays, Grass Green	£325.67
TLY300030	Set 01 Silver with 3 Extra Deep F25 Trays, Royal Blue	£332.26



Tall Treble Frame

Callero Plus is our new range for School science storage. These attractive trolleys have 33% more storage space than our standard trolleys.

Code	Description	Price
TTF010010	Tall Treble Frame (1850mm) Set in White with 01 Shallow F1 Tropical Orange Trays and Runners	£1,076.30
TTF010020	Tall Treble Frame (1850mm) Set 05 in White w/ 9 Deep F2, 18 Shallow F1 Tropical Orange Trays and Runners & 6 Single Shelves	£954.55
TTF010030	Tall Treble Frame (1850mm) Set 06 in White w/ 3 Jumbo F3, 3 Deep F2 & 18 Shallow F1 Tropical Orange Trays and Runners & 6 Single Shelves	£916.52
TTF010040	Tall Treble Frame (1850mm) Set 07 in White w/ 30 Shallow F1 Tropical Orange Trays and Runners & 6 Single Shelves	£952.08
TTF030010	Tall Treble Span Frame (1850mm) Set 08 in Grattells Grey w/ 4 Adjustable 363 Shelves	£528.83
TTF030030	Tall Treble Span Frame (1850mm) Set 10 in Grattells Grey w/ 6 Adjustable 363 Shelves	£641.93



Mid Height Treble Frame

Code	Description	Price
TTF020010	Mid Height Treble Frame (1500mm) Set in White w/ 39 Shallow F1 Tropical Orange Trays and Runners	£890.04
TTF020020	Mid Height Treble Frame (1500mm) Set 13 in White w/ 3 Jumbo F3, 6 Deep F2 & 15 Shallow F1 Tropical Orange Trays and Runners	£853.59
TTF020030	Tall Double Frame (1850mm) Set 11 in White w/ 2 Deep F2, 18 Shallow F1 Tropical Orange Trays and Runners & 4 Single Shelves	£758.08



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Low Double Column Frame

Code	Description	Price
TTF050020	Low Double Column Frame (825mm bench height) in Grattells Grey No Top & 14 Shallow F1 Tropical Orange Trays and Runners	£375.02



Low Single Column Frame

Code	Description	Price
TTF050030	Low Single Column Frame (825mm bench height) in Grattells Grey No Top w/ 7 Shallow F1 Tropical Orange Trays and Runners	£211.63



Low Treble Column Frame

Code	Description	Price
TTF050010	Low Treble Column Frame (825mm bench height) in Grattells Grey No Top & 21 Shallow F1 Tropical Orange Trays and Runners	£495.51
TTF050040	Low Treble Column Frame (725mm under bench height) in Grattells Grey No Top & 18 Shallow F1 Tropical Orange Trays and Runners	£446.30

Tall Double Frame

Code	Description	Price
TTF040010	Tall Double Frame (1850mm) Set 01 in White with 34 Shallow F1 Tropical Orange Trays and Runners	£1,099.83
TTF040020	Tall Double Frame (1850mm) Set 11 in White w/ 2 Deep F2, 18 Shallow F1 Tropical Orange Trays and Runners & 4 Single Shelves	£733.69





Poisons Cupboard

Wall mounting, constructed of sheet steel and finished in stove enamel with three adjustable shelves and lockable door. The door, which has concealed hinges, is recessed for added security. Produced to meet requirements of BS 2881: 1989 British Standard Specification for Cupboards for the Storage of medicines in health care premises - manufacturer declaration. Classified on basis of resistance to forcible entry: Security Level 1. The 3 adjustable height shelves are produced from stainless steel, which is particularly durable in use and each can be easily removed, cleaned and autoclaved where necessary. All painted surfaces inside and out applied with a powder paint finish, a high performance epoxy polyester coating for use where good chemical resistance is required.

Code	Description	Price
SST030010	H-455xD-155xW-610mm	£404.03



PRODUCED TO MEET
REQUIREMENTS OF
BS 2881: 1989



Mobile Bottle Store

Clifton Mobile Bottle Store for accommodating 8 x 2.5 litre Winchester and Euro bottles. Features a hinged lid, four castors and two side lifting handles which allows the unit to be pulled or carried. The bottles are held in a removable stainless steel drip tray. Constructed from heavy gauge steel, with durable antibacterial paint finish.

Code	Description	Price
MBS-1S	W-645 x D-350 x H-430mm	£528.54



Acid and Alkali Storage Cabinets

White powder coated steel carcass with labelling, riveted seams, integral spillage sump and reinforced door with recessed 2-point locking handle. Tray-type shelves provided are height adjustable and finished in a polyester powder coating.

Code	Description	Price
ACABSB847-10	700 x 350 x 300mm	351.69
ACABSB847-20	700 x 900 x 460mm	493.60
ACABSB847-30	900 x 900 x 460mm	537.54
ACABSB847-40	1800 x 900 x 460mm	813.29



Hazardous Substances Cabinets

Designed to provide safe storage of small quantities of flammable liquids, chemicals, pesticides, paints and other hazardous substances. Manufactured in sheet steel with riveted seams. Shelves provided are height adjustable, perforated and galvanised.

Code	Description	Price
HCABSB845-20	700 x 350 x 300mm	356.10
HCABSB845-30	900 x 460 x 460mm	381.68
HCABSB845-40	700 x 900 x 460mm	447.62
HCABSB845-45	900 x 900 x 460mm	489.58
HCABSB845-50	1800 x 900 x 460mm	727.38





SAFETY

SAFETY GLASSES	197
LABORATORY COATS	198
MASKS	198
GLOVES	200
SIGNAGE	202
SPILLAGE CONTAINMENT	204



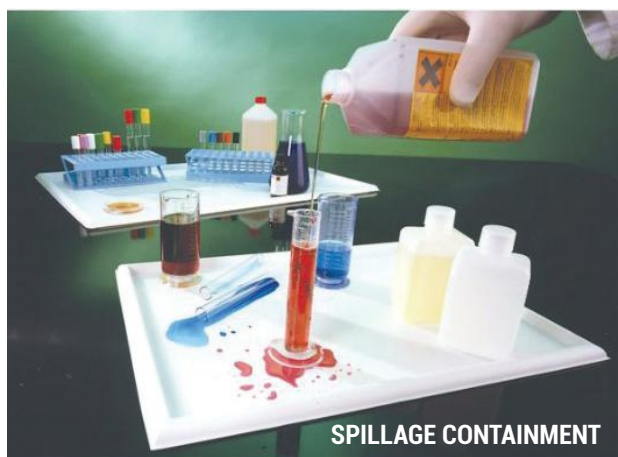
GLOVES



SAFETY SIGNAGE



SAFETY GLASSES



SPILLAGE CONTAINMENT



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(just like this coffee mug)

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Chemical Goggles

General Purpose Goggle - Polycarbonate lens with PVC frame, Comfortable and lightweight. Direct vent. Optical class 1, Impact B (medium Energy). Conforms to ANSI Z87.1 and EN166.

Code	Description	Price
SAP010021	Each	£2.47



General Purpose Goggles

Polycarbonate lens. PVC frame. Comfortable, Lightweight. Indirect vents.

Code	Description	Price
SAP010011/EPS	Each	£1.55



Will fit over most prescription spectacles

Bolle VISTEUR Safety Glasses

Adult Visiteur Eyeshield-Lightweight (36g) onepiece optical class 1 polycarbonate lens with integral brow guard and side shields. Will fit over most prescription spectacles. Tested and approved to CE standard EN166 1F.

Code	Description	Price
SAM345010	Each	£3.38



Bolle BANDIDO BANC1 Safety Glasses

Thanks to its durable PC frame, the PRISM model offers excellent protection and is great value for money. Lightweight frame. No metal parts. Adapted to the food-processing industry. Technology approved for permanent wear and certified with perfect optical quality with anti-fog and anti-scratch coatings.

Code	Description	Price
SAM330010	Each	£4.07



Junior Safety Goggles

Code	Description	Price
SAP120011	Each	£2.92



Fits Gratnells Deep Trays

Gratnells F2 Tray Foam Insert for Glasses

Foam Insert for Lab Glasses to fit Gratnells Deep Trays-Keep your science equipment stored safely and with ease of access. A range of ready-made inserts, both foam and plastic, are available to house various items from safety glasses and calculators to experiment essentials.

Code	Description	Price
TRY070501	Each	£6.52



Plain Lab Coats

White polyester/cotton mix, with one breast pocket and two side pockets.

Code	Description	Price
712-024	36 Inch	£14.64
712-025	38 Inch	£14.64
712-026	40 Inch	£14.64
712-027	42 Inch	£14.64
712-028	44 Inch	£14.64



Offering
Type 6 Limited
splash protection

KIMTECH Science A7 White Lab Coat

Lab Coat provides the vital body protection and comfort needed in the laboratory environment. Offering Type 6 limited chemical splash protection. 100% Polypropylene Breathable SMS Fabric. Cloth-like low lint fabric. Three layers of fabric offering strength, durability and protection.

Code	Description	Price
SAC650020	M	£197.41
SAC650030	L	£197.41
SAC650040	XL	£197.41

Rainbow Tie-Dye Lab Coat

Premium lab coat is pre-shrunk, 100% heavyweight cotton twill for extra durability, hand dyed rainbow Tie-Dye, knee length with full sleeves, two roomy lower pockets, and side slit openings for easy access to trouser pockets. Unisex.

Code	Description	Price
SAC930020	M	£46.49
SAC930030	L	£46.49



100% heavy-weight cotton



JSP Fold Flat Mask FFP2

Fold flat disposable mask with tri-fold design. Secure fit with the use of an internal skeleton frame that helps each mask keeps its shape and ensures a tight seal. Typhoon valve gives low breathing resistance and reduces heat and moisture build-up.

Code	Description	Price
JSP100010	Fold Flat Mask	£31.99





Surgical Type IIR Face Mask

For facial protection, choose our Surgical Type IIR Face Mask with ear loop fastening and nose clip for a better grip and secure fitting around the face.

Code	Description	Price
15800S	Face Mask	£10.99

Face Mask 3 Ply With Ear Loop

- ✓ Made of three non-woven layers for added comfort
- ✓ Adaptable nose bar
- ✓ Filtration (BFE 98%) and fluid resistance

Code	Description	Price
SAR500010	Face Mask 3 Ply With Ear Loop	£36.50

PACK
OF 50



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provide a
professional
waste disposal
service for all
chemicals
and sharps

See page 8 for details



PACK
OF 100**Gloves, Nitrile Powder Free
Micro Textured**

Nitrile powder Free (Latex free)

- ✓ Non Sterile Design
- ✓ Ambidextrous Cuff
- ✓ Beaded Usage
- ✓ Single Use only
- ✓ Colours may vary

Code	Description	Price
BNG1000	S	£10.50
BNG1001	M	£10.50
BNG1002	L	£10.50
BNG1003	XL	£10.50

Latex Gloves Powdered

If you need exceptional fit teamed with fantastic sensitivity and dexterity, our Powdered Latex Gloves are second to none. Available in medical or industrial grade, you will definitely find a glove to suit your needs.

- ✓ Powdered with corn starch
- ✓ Corn starch certified free from GMO's
- ✓ Micro textured
- ✓ Beaded cuff

Code	Description	Price
SAH020010	S	£9.99
SAH020020	M	£9.99
SAH020030	L	£9.99

PACK
OF 100**Latex Gloves Medical
Powder Free**

Our Powderfree Latex Gloves are incredibly popular due to their fantastic fit, sensitivity and versatility. With industrial or medical grade available, these gloves should be at the top of your list.

- ✓ Powder free
- ✓ Low in latex proteins
- ✓ Micro textured
- ✓ Beaded cuff

Code	Description	Price
10201	S	£113.99
10202	M	£113.99
10203	L	£113.99

PACK
OF 100Industrial or medical
grade availablePACK
OF 100**Blue Nitrile Medical Gloves
Powder Free**

When strength and dexterity are of the utmost importance, our allergy-free Powderfree Nitrile Gloves are the ideal choice. From food handling to engineering, these versatile gloves are sure to suit the task at hand.

- ✓ Powder free
- ✓ Latex free
- ✓ Micro textured

Code	Description	Price
SAH010015	S	£149.30
SAH010025	M	£160.00
SAH010035	L	£149.30
SAH010045	XL	£149.30



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Blue Household Rubber Gloves

- ✓ Manufactured from natural rubber latex
- ✓ Cotton flock lined
- ✓ Flexible and comfortable to wear
- ✓ Offers a high degree of sensitivity
- ✓ Suitable for food handling

Code	Description	Price
SAJ030011	S	£1.15
SAJ030021	M	£1.15
SAJ030031	L	£1.15



Supertouch Powderfree Vinyl Gloves, Industrial

Made from high grade Polyvinyl Chloride, our Powderfree Vinyl Gloves are a simple and effective glove, ideal for clinical, automotive and food processing use. And as they're latex free, they are perfect for latex allergy sufferers.

- ✓ High quality polyvinyl chloride
- ✓ Powder free
- ✓ Latex free
- ✓ Smooth finish
- ✓ Beaded cuff

**BEST
SELLER**

Code	Description	Price
SAH030010	S	£10.25
SAH030020	M	£6.00
SAH030030	L	£6.00
SAH030025	M (pack of 10x100)	£144.20
SAH030035	L (pack of 10x100)	£91.76



**PACK
OF 100**



Plain Oven Gloves

These are to help protect your hands from hot plates, ovens, baking trays and pans.

Code	Description	Price
HEL110160	7x36"	£4.04



Heat Protection Gloves

- ✓ Great protection and comfort in moderate heat.
- ✓ Designed for intermittent handling of hot objects up to 180 deg C
- ✓ Provides high resistance to cuts, minor injuries and abrasion
- ✓ Enhances grip on dry and oily surfaces
- ✓ Comfortable and flexible, sweat absorbent non-woven felt inner

Code	Description	Price
SAJ150020	XL	£3.01

Yellow Rubber Gloves

Manufactured from natural rubber latex. Cotton flock lined. Flexible and comfortable to wear. Offers a high degree of sensitivity. Suitable for food handling. Minimal risk.

Code	Description	Price
SAJ025021	M	£1.15
SAJ025041	L	£1.15



**PACK
OF 100**

Nitrile Gloves Touch/Tuff Powdered

- ✓ Powdered for easy wearing and moisture absorption
- ✓ Enhanced splash protection against a wide array of chemicals
- ✓ Very comfortable soft nitrile formulation for increased comfort

Code	Description	Price
SAH150011	S	£28.84
SAH150021	M	£30.90
SAH150031	L	£28.84
SAH150041	XL	£28.84



Enhanced
splash
protection

Nitrile Gloves Touch/Tuff Powder Free

- ✓ Enhanced splash protection against a wide array of chemicals
- ✓ Very comfortable soft nitrile formulation for increased comfort and easy donning
- ✓ Silicone free

Code	Description	Price
SAH140011	S	£25.00
SAH140021	M	£25.00
SAH140031	L	£25.00



**PACK
OF 100**

**PACK
OF 100**

Gloves Latex Examination

Disposable gloves. Allows touch sensitive work to be carried out with ease. Ambidextrous. Easy to pull on beaded cuff. EN455-1 (ALQ - 1.5) Minimal risk.

Code	Description	Price
EDU994	S	£10.99





GHS Lab Tapes on a Roll

GHS hazard symbols for use on their own or for application with the supply and conveyance labels.

- ✓ Peel off individually from wax back paper for ease of use
- ✓ Compliant with the new International Labelling Regulations
- ✓ Material Vinyl/Polyethylene



Oxidising



Flammable



Corrosive



Explosive



Gas under pressure



Irritants



Toxic



Environment



Environment

25x66m

Code	Description	Price
SHW120016	Toxic	£5.98
SHW120026	Irritants	£5.98
SHW120036	Flammable	£5.98
SHW120046	Harmful	£5.98
SHW120056	Oxidising	£5.98
SHW120066	Corrosive	£5.98
SHW120076	Biohazard	£5.98
SHW120086	Radioactive	£5.98
SHW120096	Explosive	£5.98
SHW120106	Serious Health	£5.98
SHW120116	Environment	£5.98
SHW120126	Gas under pressure	£5.98

25x25mm

Code	Description	Price
SHW440200	Oxidising	£11.49
SHW440210	Flammable	£11.49
SHW440220	Explosive	£11.49
SHW440230	Toxic	£11.49
SHW440240	Corrosive	£11.49
SHW440250	Gas	£11.49
SHW440260	Health	£11.49
SHW440270	Health	£11.49
SHW440280	Warning	£11.49

50x50mm

Code	Description	Price
SHW440100	Oxidising	£17.24
SHW440110	Flammable	£17.24
SHW440130	Toxic	£17.24
SHW440140	Corrosive	£17.24
SHW440160	Health	£17.24
SHW440170	Environment	£17.24
SHW440180	Warning	£17.24



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Self Adhesive Diamond Hazard Warning 100 x 100mm

A high gloss, flexible PVC vinyl with self-adhesive backing. Suitable for applying to most smooth, dry and clean surfaces. Ideally suited for internal signs.

Code	Description	Price
SHW410050	Flammable Gas	£2.32
SHW410110	Toxic	£2.32
SHW410250	Corrosive	£2.32

GHS Chemical Warning Guide Poster

Code	Description	Price
SHW460095	400 x 600mm	£42.94

Use Hand Sanitiser Before Entering

Code	Description	Price
SHW500120	300 x 400mm	£6.18

Please Keep Your Distance

Code	Description	Price
SHW500010	400 x 400mm	£6.62

Now Wash Your Hands

Code	Description	Price
SHW500130	600 x 200mm	£6.18

Laboratory Safety

Code	Description	Price
SHW060010	Laboratory safety poster	£73.67
SHW060030	Laboratory safety chart	£259.61

Eye Protection Must be Worn

Code	Description	Price
SHW360225	150 x 200mm	£6.75
SHW360230	150 x 200mm (Self Adhesive)	£3.18

Face Coverings Must Be Worn

Code	Description	Price
SHW500060	300 x 400mm	£6.18

Entry Only Please One Way System

Code	Description	Price
SHW500040	400 x 400mm	£6.62

Cover Your Face Whilst on Premises

Code	Description	Price
SHW500030	300 x 400mm	£61.18

Use Hand Sanitiser

Code	Description	Price
SHW500110	300 x 100mm	£2.06

Stay A Safe Distance!

Code	Description	Price
SHW500080	250 x 300mm	£4.35

Did You Wash Your Hands

Code	Description	Price
SHW500090	250 x 300mm	£4.35

Social Distancing

Code	Description	Price
SHW500020	300 x 600mm	£6.62

Expert Advice

Our experts are always happy to help, call on: **01902 402 402**

Warning Signs

A high gloss, flexible PVC vinyl with self-adhesive backing. Suitable for applying to most smooth, dry and clean surfaces. Ideally suited for internal signs.

Code	Description	Price
SHW390040	Caution corrosive 150 x 200mm	£3.18
SHW390130	Warning biohazard 150 x 200mm	£3.18
SHW390070	Warning toxic 200 x 150mm	£3.18
SHW390385	Warning chemical waste 300 x 100mm	£3.54
SHW390405	Danger acid 300 x 100mm	£3.54
SHW390425	Hazardous waste 300 x 100mm	£3.98
SHW390415	Hazardous waste 600 x 200mm	£9.39
SHW390470	Biohazard symbol 150 x 150mm	£2.50
SHW390510	Danger chemicals 600 x 200 mm	£3.48
SHW390520	Caution hot surface 300 x 100 mm	£4.16
SHW390530	Warning chemical store 300 x 100mm	£3.48
SHW390540	Warning harmful chemicals 300 x 100mm	£3.48



FOLDABLE FOR
EASY STORAGE



Caution Slippery Surface Standing Sign

- ✓ Self-Standing
- ✓ Foldable for easy storage
- ✓ Double sided. Yellow polypropylene
- ✓ Lightweight & durable plastic
- ✓ Provides clear and appropriate warning of risk

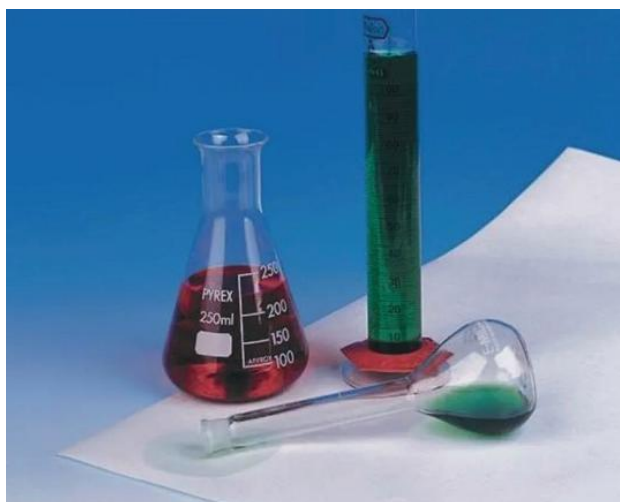
Code	Description	Price
SHW390365	300 x 575 mm	£20.21



Uni-Safe Oil & Chemical Binder

Oil And Chemical Binder-The Uni-Safe Chemical Binder is the only chemical binder applicable on land for all liquids without restriction. The composition of Uni-Safe does not allow any dangerous reaction even with strongly reacting and oxidising substances such as nitric acid, oleum and bromine. Safety hint: Uni-Safe absorbs dangerous substances but does not neutralise them. Any residue resulting from a spillage must be handled and disposed of according to the substance bound.

Code	Description	Price
SAS110010	800GM	£77.83



Benchkote Surface Protection

Benchkote, Whatman used for protecting laboratory benches and drawers. The smooth, highly absorbant paper top surface is laminated to a strong layer of impermeable polyethylene. A contaminated sheet can be discarded easlily and incinerated if necessary.

Code	Description	Price
SA200-20S	Pack	£111.00
SA200-30S	Pad	£111.00
SA-205-12S	Pack 50 x 60cm	£132.48
SA-205-18S	50 x 60cm Wide Reel	£263.68



Anti-static Spill Trays

Anti-Static Spill Trays are a practical and cost-effective solution to containing spillages. Made from anti-static, high impact polystyrene the lightweight trays clearly define your working area without the need for bulky bench coverings.

Code	Description	Price
TRY200010	475 x 360mm	£68.69
TRY200020	475 x 360mm	£274.80
TRY200030	700 x 450mm	£125.64
TRY200040	700 x 450mm	£500.12



PVC Spill Tray

White Rigid PVC Spill Tray with sufficient depth to prevent dispersal of hazardous liquids. White. NB: Colourless PVC liners available - please contact Customer Services for details. Please note: These trays are not suitable for use with organic solvents such as Acetone or strong acids.

Code	Description	Price
TRY210010	475 x 360mm	£24.03
TRY210030	700 x 450mm	£44.66



Chemical Spill Kit in Clip Top Bag with Carry Handle

Use this chemical spill kit for cleaning small spills when the liquid in question is hazardous or is unidentified. It contains pads and socks and is small enough to be kept in a lab cupboard or on a shelf ready for use.

Absorbs: Acids - Caustics - in fact almost any liquid, so ideal when you're unsure what the liquid is.

Bag size L 70cm x W 59 cm x H 5cm.

Code	Description	Price
SAS260011	Chemical spill kit 15L (Each)	£17.96
SAS260031	Chemical spill kit 30L (Each)	£26.74
SAS260051	Chemical spill kit 63L (Each)	£199.97

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BIOLOGY 09-33

CHEMISTRY 34-54

PHYSICS 55-88

CHEMICALS 89-102

LAB EQUIPMENT 103-126

LABWARE 127-176

DATA LOGGING 177-188

STORAGE 189-194

SAFETY 195-205

A	
a-Amylase (Bact.source)	91
ABS Trays	172
AC/DC Switched Power Supply	82
Academy Balance 500 x 0.01g	105
Academy Conical Flasks	144
Academy Hexagonal Base Glass Cylinders	141
Academy Squat Form Beakers	130
Acetic Acid Glacial (Ethanoic Acid)	91
Acetone (Propanone)	91
Acetone HPLC grade	91
Acetone, Puriss. 99.5%	91
Acetonitrile HPLC Grade	91
Acetonitrile HPLC Isocratic	91
Acetonitrile HPLC Super Gradient	91
Acid and Alkali Storage Cabinets	194
Acrylic Burettes	135
Action/Reaction Platforms	74
Adapter, Inlet Or Thermometer	41
Adjustable Spanner	171
Adjustable Wooden Lens Holder	79
Advanced Structures Set	74
Agar Nutrient	91
Agar Powder	20/91
Air Blower for Air Track	72
Airlink Interface	180
Allen Key Sets	170
Alpha Amylase	16/91
Aluminium Collecting Sphere	66
Amber NM Bscap Winchester Bottles	132
Amber Polystop Dropping Bottles	131
Amber Polystop NM Reagent Bottles	131
Ammonia Solution 35%	91
Ammonium Chloride	91
Ammonium Iron (II) Sulfate	91
Ammonium Oxalate H2O Pure	91
Amylase(Fungal)	91
Analogue Melting Point Apparatus	44
Anti Bumping Granules	91
Antimicrobial Susceptibility Discs	20
Anti-static Spill Trays	204
Assorted 1 Hole Rubber Stoppers	161
Assorted 2 Hole Rubber Stoppers	161
Assorted Cork Stoppers	161
Assorted Solid Rubber Stoppers	161
Autoclave Bags	104
Autoclave Indicator Tape	104
B	
Bacterial Amylase	16/91
Bacterial Protease	16/91
Ballistic Cart Accessory	179
Barium Hydroxide Octahydrate pure	91
Basic Heart Model	17
Battery Holder with Backplate	60
Beaker Tongs	169
Beakers	130
BeeSpi V Light Gate	71

Bell in Acrylic Bell Jar	88
Bench Mats	150
Bench Timer With or Without External Triggering Contacts	168
Benchkote surface protection	204
Benedicts Solution Quantitative	91
Bicarbonate Indicator	91
Big Flower Model	33
Bi-Metal Strip Kit	70
Biohazard symbol 150x150mm sign	203
Biuret Reagent	91
Blue Cap Containers	133
Blue Litmus Paper	53
Blue Nitrile Medical Gloves Powder Free	200
Blunt Tip Forceps	12
Blunt End Forceps	12
BMS 037 LED Microscope	21
BMS 100 FL LED	21
BMS 146 Series Compound Microscopes	22
BMS D2 Series Microscopes	23
BMS EduLed Series	22
Bolle BANDIDO BANC1 Safety Glasses	197
Bolle VISTEUR Safety Glasses	197
Borosilicate Glass Capillary Tubing	174
Borosilicate Glass Stirring Rods	160
Borosilicate Glass Tubing	174
Borosilicate Heavy Wall Test Tube with Rim	165
Borosilicate Medium Wall Test Tube with Rim	165
Borosilicate Medium Wall Test Tube Without Rim	165
Borrodalle Dissection Needle	12
Bosshead	158
Bosshead with Eccentric Rings	158
Bottled Gas Bunsen Burners	137
Boyle's Law Apparatus	73
Brain Model - 4 Parts	17
Brass Sieves	156
Brass Slotted Masses	149
Brass Weight Hangers	149
Breaksafe Thermometer	167
Bristle Beaker Brush	134
Bristle Flask Brush	134
Bromine Water 200ml	91
Bromobutane	91
Brush Set	170
Buchner Funnels	146
Budget Pipette Fillers	152
Budget Precision Balance	107
Buffer Solution	91
Buffer Solution Sachets	50/91
Bugs Habitat	10
Bunsen Tubing	174
Burette Clamps	136/159
Burette Clip	136/156
Butan-1-ol (n-Butyl Alcohol)	91
Butanone (Methyl Ethyl Ketone)	91
Button Cells	129
C	
C Clamp	170
Calcium Carbonate Extra Pure 98%	92
Calcium Chloride Anhydrous Prills	92
Calcium Chloride Dihydrate	92
Calcium Coarse Granules	92
Callipers	170
Calorimeter Blocks	68
Calorimeter Insulation Jackets	70
Capacitors	61
Capstone Software	188
Carbon Electrodes	36
Cartridge Burner	138
Cart Picket Fence	179
Cast Iron Retort Stand Base	158
CCL Series Vacuum Pump	154
Cellular Respiration Box	33
Centrifuge Tubes	114
Charles' Law Apparatus	68
Chattaway Spatulas	157
Chemical Goggles	197
Chemical Jigsaws	45
Chemical Moles Set	37
Chemical Spill Kit	205
Chemical Wash Bottles	133
Chlorine Free Test Kit	54
Chromatography Jar	35
Chromatography Paper	35
Circuits Kit Bulb Holder	59
Circuits Kit Buzzer	59
Circuits Kit Cell Holder	59

Circuits Kit Push Switch	59
Citric Acid	92
Classic Media Autoclave	104
Clear Polystop Dropping Bottles	131
Clear Reagent Bottles with Stopper	131
Clinometer	150
Clinostat	32
Cobalt Blue Flame Test Glass	38
Cobalt Chloride Paper	54
Code Node	188
Coil, Demountable Transformer	64
Cole-Parmer WS-100-4 Water Still	126
Cole-Parmer WS-200-4 Water Still	126
Cole-Parmer WS-200A-4 Water Still	126
Colour LED Light Source Set	77
Colourwave Colorimeter	115
Column Vigreux	41
Compact Ramp Kit	73
Compact Ripple Tank	87
Compartment Polystyrene Petri Dish	151
Concave Glass Mirrors	79
Conical Narrow Neck Glass Flask	144
Containers	133
Convection Tube	70
Convex Glass Mirrors	79
Copper (II) Carbonate Basic	92
Copper (II) Chloride-2-water	92
Copper (II) Nitrate-3-water	92
Copper (II) Oxide Black	92
Copper (II) Oxide Black	92
Copper (II) Sulfate-5-water	92
Copper Calorimeter	70
Copper Metal Foil 0.13mm	92
Copper Metal Turnings	92
Cork Jaws Retort Clamp	159
Cork Lined Retort Clamp	158
Cover Slips	24
Cover Your Face Whilst on Premises Sign	203
Cross-section Plant Cell Model	33
Crucible Tongs with Bow	169
Cuvette Caps	116
Cuvette Holder	116
Cyclohexane Pure 1Ltr	92
Cyclohexene 500ml	92
Cylindrical Funnels	42
D	
d Glucose Monohydrate	92
d(+)Glucose Anhydrous	92
Daniel Cell	37
DC Power Energy Meter	69
Decomatic Cleaner	139
Decon 90	139
Deep Tray	190
Deflection Tube	85
Demonstration Motor AC/DC	65
Demountable Transformer Accessory	64
Demountable Transformer Kit	64
Diamond Tipper Engraver Tool	171
Dicotyledon Stem (Helianthus) Model	33
Digital Blood Pressure Monitor	19
Digital Coulomb Meter	58/67
Digital Count Up/Down Timer	168
Digital Melting Point Apparatus	44
Digital Meter with Shunts	57
Digital Milliammeter	57
Digital Stop Clock	168
Digital Storage Oscilloscope with VGA Port	87
Digital Thermometer	167
Di-Sodium Tetraborate Decahydrate 99%	92
Disposable Graduated Pipettes	152
Disposable Plastic Syringe	163
Dissecting Awl	12
Dissecting Board	11
Dissecting Instruments Set	11
Dissecting Scalpels	12
Dissecting Seeker	12
Dissecting Tray with Wax	11
Dissection Specimen	11
Distillation Apparatus	42
DNA Activity Model	14
DNA Forensics Lab Investigation	14
DNA Murder Mystery Lab Investigation	13
Double Beam Tube, Gas-Filled	85
Double Burette Clamp	159
Double width Callero Plus Trolley	192
Draining Rack	143
Dreschel Bottle	42

Dropping Bottles	132
Dropping Funnels	42
Dropping Pipettes	152
Dual Panel Draining Rack	143
Dual Power Timers	168
Duracell Batteries	129
Dymax Pumps	154
Dynamics Cart & Track System	178
Dynamics Kit, Track & Accessories	75/178
Dynamics Tracks	75/178
E	
Ear Model	17
Economy Borosilicate Test Tubes with Rim	164
Economy Burette Stand	136
Economy Clinometer	150
Economy Furnace	116
Economy Hand Operated Centrifuge	114
Economy Heating Mantle	119
Economy Multimeter	57
Economy Stopwatch	168
Economy Test Tube Rack	166
EDGE Integrated Electrophoresis System	13
Effects of Smoking Model	18
Egg Albumine Powder	92
EHT Power Supply	83
Electric Vacuum Pump	154
Electricity Circuits Kit	58
Electrode Holder	36
Electrodes Platinum Screw Terminals	36
Electrolysis Cells	36
Electromagnet Kit	65
Electromagnetic Power Supply	83
Electron Diffraction Tube	85
Electrophoresis Lab Station	13
Electrophoresis Power Supply	13
Electrostatic Pendulum	66
Electrostatic Plastic Strips	67
EnduraFlex Bunsen Tubing	175
EnduraFlex Vacuum Tubing	175
Entry Only Please One Way System Sign	203
Enzyme Biotechnology Kit	16
Enzymes Set	16
Essentials Borosilicate Test Tubes	164
Ethanol (Ethyl Alcohol) 99.99%	92
Ethanol (Ind Denatured Alcohol) 99% 740P	92
Evaporating Basin	129
Evaporating Dish Tongs	169
Exploring Electrophoresis and Forensics Kit	13
Express Range Autoclave	104
External Micrometer	170
Extra Deep Trays	190
Extra Wide Mouth Glass Bottles	132
F	
Fan Shape Test Tube Brush	134
Fehling's Solution	92
Filter Flask with Glass Side Hose Connection	145
Filter Flask with Plastic Side Arm	145
Filter Funnel	146
Finger Maze	19
Fingertip Pulse Oximeter	19
Fixed Micropipette	153
Flame Flume	39
Flask Tongs	169
Flat Electrodes	37
Flat Electrodes with Binding Posts	37
Flexi-Ramp	73
Foam Insert for Glasses for Grattells F2 Tray	197
Folding Pocket Magnifier	148
Formic Acid 85%	92
Free Fall Tube	76
Friction Rod Compound	70
Friction Rods	67
Friction Strips	67
Frontier 5306 Mini Centrifuge	112
Frontier 5706 Multi Centrifuge	112
G	
Gas Jar Lid	40
Gas Jars	40
Gas Lighter	138
Gas Preparation Kit	39
Gas Syringe	40
Gas Syringe with Capillary Tube	40
Gas Voltmeter	36
Gasket for Classic Media Autoclave	104
Gauzes	173
General Purpose Filter Paper	144

General Purpose Hydrometers	147
General Purpose Scissors	171
General Purpose Spirit Filled Thermometers	167
General Purpose Triangular Tripods	173
Genes & Probability Lab Kit	14
Genlab Classic Incubator with Solid Steel Door	123
Genlab Classic Incubator with Viewing Window	123
Genlab Classic Oven	125
GHS Chemical Warning Guide Poster	203
GHS Lab tapes	202
GHS Labels on a Roll	202
Glass Biconvex Lenses	79
Glass Burette with PTFE Stopcock	135
Glass Desiccator with Knob Lid	142
Glass Desiccator with Stopcock	142
Glass Equilateral Prism	80
Glass One Mark Bulb Pipettes	152
Glass Syringes with Metal Luer Tip	163
Glassco Glass Burette with PTFE Stopcock	135
Gloves Latex Examination	201
Gloves Nitrile Touch/tuff Powder	201
Gloves Nitrile Touch/tuff Powder Free	201
Gloves, Nitrile Powder Free Micro Textured	200
GM Tube and Holder	84
Goggles	197
Grade 1 Qualitative Filter Papers	144
Graduated Class B Glass Pipettes	152
Graduated Pipettes	152
Grattells Rover All-Terrain Cart Set	192
H	
Hand Magnifier with Metal Frame	148
Hand Operated Centrifuge	114
Hand Operated Vacuum Gauge Pumps	155
Hand Vacuum Pump	155
Hanna Edge pH Meter	50
Hardwood Burette Stand	159
Hazardous Substances Cabinets	194
Hazardous Waste 300x100mm Sign	203
Hazardous Waste 600x200mm Sign	203
Heat Protection Gloves	201
Heating Mantle with Temperature Control	119
Heavy Duty Squat Form Beakers	130
Heavy Duty Stopwatch	168
Heavy Wall Red Rubber Tubing	174
Helmholtz Coils	85
Hex-1-ene	92
Hexagonal Iron Mass with Ring	149
Hexagonal Polythene Aspirator with Tap	128
High Rate Filter Papers	144
High Tension Power Supply	83
HM Series Heating Mantles	119
Hotplate & Magnetic Stirrer - ISG	120
Household Blue Rubber gloves	200
Hovercraft	76
Hovercraft Accessory Pack	76
Hovercraft Battery Leaf Blower	76
Human Digestive System Model	18
Human Skeleton Model	17
Human Skeleton with Joint Ligaments	18
Hydranal Solvent CM	92
Hydrochloric Acid	92
Hydrochloric Acid Solution, Volumetric, 0.1M HCl (0.1N)	92
Hydrogen Peroxide	92
Hydrogen Peroxide Solution, Perdrogen 30% H2O2	92
Hydrometer Jars	147
Hypodermic Needles	163
Hypodermic Syringes	163
I	
Ideal Gas Law Wireless Bundle	39
Immersion Heater 12V	68
Indicator Paper Books	53
Initial Brand Thermometers	167
Insect Net with Extended Handle	10
Insulated Drying/Warming Cabinet	143
Iodine solution	92
Iron (II) Sulfate Heptahydrate AR	92
Iron (III) Nitrate-9-water	92
Irradiated Swabs	162
ISG Clinical Centrifuge	113
ISG Mini Centrifuge	113
ISG Pro Hotplate & Magnetic Stirrer	120
Iso-Propyl Alcohol 99.5% AR	92
J	
JB Academy Basic Unstirred Water Bath	111
JB Nova Digital Unstirred Water Bath	111
Joint Clips	43

Joule & Watt Meter	69
J-QUANT Chlorine 300	54
J-QUANT Chloride 3000	54
J-QUANT Nitrate / Nitrite 80/500	54
J-QUANT® Water Hardness 500	54
JSP Fold Flat Mask FFP2	199
Jumbo Trays	190
K	
Kidney Model	17
KIMTECH Science A7 White Lab Coat	198
Kipps Apparatus	39
L	
Lab Coats Plain	198
Lab Coat Rainbow Tie-Dye	198
Laboratory Jacks	147
Laboratory Oven	125
Laboratory Safety Chart	203
Laboratory Safety Poster	203
Labwater Water Deioniser	126
Large Sheet Magnifier	148
Lascells Digital Ammeter	56
Lascells Digital Voltmeter	56
Lascells 'G' by Freefall Apparatus	72
Lascells LED Ray Box	77
Laser Ray Box	77
Latex Gloves Medical Powder Free	200
Latex Gloves Powdered	200
Leaf Dicotyledon Model	33
LED Ray Box	77
Levers Kit	76
Liebig Condensers	41
Life Size Bisexual Torso Model	17
Light Gate Adaptor 3.5mm Jack	71
Lime Water (Calcium Hydroxide Solution)	93
Linear Air Track with Accessories	72
Lipase	93
Lithium Chloride Anhydrous	93
Lithium Metal(in Paraffin liquid)	93
Locking Pliers	172
Lotox (Low Toxicity) Thermometers	167
Low Double Column Frame	193
Low Form Porcelain Crucibles	140
Low Single Column Frame	193
Low Treble Column Frame	193
Lungs and Larynx Model	17
M	
MacConkey Agar	20
Magnesium (Metal) Powder Fine	93
Magnesium Chloride Hexahydrate 98% Extra	93
Magnetic Levitation Track	72
Mains Joule & Watt Meter	69
Malt Extract Agar	20/93
Malt Extract Broth	20/93
Maltese Cross Tube	85
Manganese (IV) Oxide Powder	93
Marble Chips	93
Mast Rings	20/93
Materials Pack	60
Max Series 12V AC/DC 5A Power Pack	82
Max Series 15V DC 8A Variable Power Pack	82
Max Series Scaler Timer	84
Max Series Wireless 12V Power Supply	82
Measuring Cylinders	141
Measuring Jug Set	147
Measuring Jug with Handle	147
Measuring Scoops	156
Measuring Tape	150
Medium Form Porcelain Crucibles	140
Medium Rate Filter Papers	144
Melting Point Block	44
Melting Point Tubes	44
Metal Bosshead	158
Metal LED Ray Box	77
Methanol (Methyl Alcohol)	93
Methanol HPLC Gradient grade	93
Methanol LC-MS	93
Methyl Orange Solution	93
Methylated Spirit Blue Mineralised	93
Methylene Blue	93
Micro Centrifuge Tubes	114
Micro Slide Strip Plants & Animals	29
Micrometer Eyepiece WF 10x/18mm	24
Micropscope Slide - Dicot Leaf	28
Microscopes	21-23
Microscope Cover Slips No 0 24x24mm	24
Microscope Dust Covers	24
Microscope Maintenance & Servicing Kit	24



Microscope SciChem 100FL LED	21	Monocular Microscope	21	Please Keep Your Distance Sign	203
Microscope Slide - Artery and Vein	26	Mounted Circuit Component Battery Holders	63	Pliers Set	172
Microscope Slide - Bacteria	28	Mounted Circuit Component Buzzer	62	PMP Volumetric Flask with Cap	145
Microscope Slide - Blood Smear Giemsa	27	Mounted Circuit Component Diode	62	Pneumatic Troughs	38
Microscope Slide - Blood Smear Human	27	Mounted Circuit Component Lamp Holders	62	Pocket Infrared Thermometer	167
Microscope Slide - Dicot Stem Sunflower	28	Mounted Circuit Component LDR	61	Pocket Light Meter	15
Microscope Slide - Escherichia Coli	28	Mounted Circuit Component LEDs	61	Pocket pH Tester	50
Microscope slide - Euglena	26	Mounted Circuit Component Switches	61	Pocket pHep4 Water Resistant pH Tester	50
Microscope Slide - Human Sperm	27	Mounted Circuit Component Thermistor	62	Pocket pHep5 Water Resistant pH Tester	50
Microscope Slide - Liver	27	Movable Elbow Joint Model	18	Poisons Cupboard	194
Microscope Slide - Lung Section	27	Movable Joint Shoulder Model	18	Polyethylene Aspirator with Tap	128
Microscope Slide - Mammalian Kidney Section	27	Moving Coil Ammeter	57	Polygram Pre Coated TLC Plates	35
Microscope Slide - Mitosis Onion Root Tip	28	Moving Coil Voltmeter	57	Polystop Interchangeable Bottle Stoppers	132
Microscope Slide - Nerve Cell	27	Mystrica Colorimeter 2.0	115	Polystop NM Reagent Bottles	131
Microscope Slide - Privet Leaf	28	N		Polythene Bags	128
Microscope Slide - Root Mitosis	28	National Grid Earth Return System Add on Kit	58	Pooters Large	10
Microscope Slide - Squamous Epithelium	27	National Grid Simulation	58	Porcelain Buchner Funnels	146
Microscope Slide - Striated Muscle Section	28	Natural Gas Bunsen Burners	137	Porcelain Crucible Lids	140
Microscope Slide Set - Animal Histology	25	N-Butyl Bromide (1-Bromobutane) Pure	93	Porcelain Crucibles with Lids	140
Microscope Slides	25-28	N-Butyl Iodide 99%	93	Porcelain Evaporating Basins	129
Microscope Slides - Bacterial Types	26	NE 010G Clifton Targa Centrifuge	112	Porcelain Mortar & Pestle	151
Microscope Slides - Blood	25	NE1 Series Unstirred Thermostatic Water Bath	109	Porcelain Spotting Tile	35
Microscope Slides - Flowers	25	NE1B Series Unstirred Boiling Bath	110	Potassium Chloride	93
Microscope Slides - Leaf Epidermis	26	NE1D Series Unstirred Digital Water Bath	110	Potassium Chloride, Puriss 99-100.5% (AT)	93
Microscope Slides - Male Reproductive System	26	NE2D Series Unstirred Digital Water Bath	109	0.0001% Al	
Microscope Slides - Monocot Roots	25	Needle Files	171	Potassium Fluoride Anhydrous Pure	93
Microscope Slides - Respiratory System	26	Neon Tube	66	Potassium Hydroxide Pellets Extra Pure	93
Microslide Strip - Cells of Animal Mitosis	29	Nickel Plated Brass Connector	155	Potassium Iodide Pure	93
Microslide Strip - Cells of Chromosomes & Genes	31	Nitric Acid	93	Potassium Metal	93
Microslide Strip - Cells of Endocrine System	31	Non-Insulated Drying/Warming Cabinet	143	Potassium Nitrate Extra Pure	93
Microslide Strip - Cells of Harmful Bacteria	29	Nuffield Spatula	157	Potassium Permanganate	93
Microslide Strip - Cells of Helpful Bacteria	30	Nuffield Style Wooden Test Tube Rack	166	Potentiometers 20%	61
Microslide Strip - Cells of Human Reproduction	31	Nutrient Agar	20/93	Potometer Farmer	32
Microslide Strip - Cells of Meiosis	30	Nutrient Broth	20/93	Powder Funnels	146
Microslide Strip - Cells of Plants	29	Nylon Bottle Brushes	134	Power Supply	81-83
Microslide Strip - Cells of Pond life	30	O		Precision Balance	106
Microslide Strip - Cells of The Animal Kingdom	29	Ohaus CR Balance	105	Precision Screwdriver Set	171
Microslide Strip - Cells of The Virus	30	Ohaus CX Balance	107	Premium Pipette Filler	153
Microslide Strip - Cells of Your Body	31	Ohaus Guardian 3000 Hotplate Stirrer	121	Prepared Agar Plates	20
Microslide Strip - Circulatory System	29	Ohaus NVE Balance	106	Prepared Microscope Slide - Amoeba Proteus	26
Microslide Strip - Cells of Animal Cells	31	Ohaus Pioneer Balance	108	Prokaryota Living Cultures	20
Microslide Strip - Cells of Cell Structure	30	Ohaus Scout Balance	108	Propan-2-ol (iso-Propyl Alcohol)	93
Microslide Strip - Cells of Evolution	30	Oil & Chemical binder	204	Protactinium Generator	84
Under the Microscope	30	Oil-Free Vacuum / Pressure Pump	154	Protractor	150
Microslide Strip - Cells of Photosynthesis	31	Open Frame Measuring Tape	150	PSU Base 100°C Digital Water Bath in	
Microslide Strip - Human Blood	29	Open Top Dropping Funnels	146	Gratnells Tray	111
Microslide Viewer	29	Orbit DNA-RNA Model	45	PVC Spill Tray	205
Microwave Apparatus	88	Organ Tunic - Adult Size	18	Q	
Mid Height Treble Frame	193	Organic Chemistry Kit	41	Quadrat 25	15
Miele Glass Washer Accessories	118	Oval Wash Bottles	133	R	
Miele Glass Washer Connect & Commission	118	Oven Gloves	201	Ranging Poles	15
Miele Laboratory Glass Washer	118	Owl Pellet	10	Rapitest® Soil Testing Kit	51
Millisecond Timer	71	P		RayZer Lightbox	78
Millisecond Triple Timer	71	P11 Sentek Model pH Electrode	51	Received Bend With Vent	43
Milton Sterilising Fluid	139	Parallel Blade Spatula	157	Rechargeable Batteries	129
Milton Sterilising Tablets	139	Pasco Advanced Structures Set	74/188	Rectangular Glass Block	79
Mini Diaphragm Vacuum Pump	154	Pasco Bridge Set	74/188	Red Litmus Paper	53
Mini Magnetic Stirrers	122	Pasco 2-Axis Force Platform	182	Red Rubber Tubing	174
Mini Max 12V 2A Power Supply	81	Pasco Spark LXi2 Data Logger	180	Refillable Gas Burner	138
Mini Max 12V 3.5A Power Supply	81	Pasco Spectrometer	80	Resazurin Tablets	93
Mini Max 12V 3.5A Variable Power Supply	81	Pasco Universal Interface 550	180	Resealable Polythene Bags	128
Mini Max Ammeter	56	Pasco UV-VIS Spectrometer	80	Resealable Polythene Bags with Write On Panel	128
Mini Max Electricity Comprehensive Kit	63	Pasco Absolute Pressure / Temperature Sensor	187	Resistance Glass Petri Dishes	151
Mini Max Electricity Starter Kit	63	Pasco Voltage/Current Sensor	187	Resistors	61
Mini Max Radiation Test Source	84	Pastrack Curved Track	179	Respiration Apparatus	10
Mini Max Voltmeter	56	Pasteur Pipette Teats	152	Respirometer	10
Mini Peak Flow Meter	19	Pasteur Pipettes	152	Retort Stand Kit	158
Mini Stirrer	122	Pectinase	16	Revolution Switched Power Supply	82
Mini Torso with Detachable Head Model	17	Perforated Desiccator Discs	142	Revolution Variable Power Supply	82
Mini Vortex Mixers	124	Performance Plastic Wash Bottles	133	Ripple Tank System	87
miniDNA® Molecular Model Kit	48	Perrin Tube	85	Rod Glass with Platinum Wire	38
Mirrored Raybox with Accessories	77	Petri Dish Rack	151	Rotary Investigation	74
Mobile Bottle Store	194	Petri Dishes	151	Round Base Bunsen Burners	137
Model Flower Dissectable	33	pH Electrode for PHM990010	51	Round Base Glass Measuring Cylinder	141
Molecular Model Set for Biological Sciences	48	pH Electrode with Soaker Bottle	51	Round Bottom Short Neck Flasks	43
Molymod RNA Protein Synthesis Kit	48	pH Meter Bench	51	Rubber Lined Clamp	159
Molymod® Advanced Level Chemistry Set	49	Phenolphthalein Soln	93	Rubber Pipette Filler	153
Molymod® Covalent Crystal Structures	46	Photosynthesis Apparatus	32	Rubber Stoppers	161
Molymod® Electron Repulsion Theory Models	47	Pipette & Burette Rinsers	136	Ruben's Tube	88
Molymod® Inorganic/Organic Chemistry, Student Set	47	Pipette Controller	153	Ruben's Tube Amplifier	88
Molymod® Inorganic/Organic Chemistry, Teacher Set	47	Pipette Tips	153	Ruler	150
Molymod® Ionic Crystal Structures	46	Plain Receiver Adaptors	43	S	
Molymod® Organic Chemistry, Student Set	47	Plant Cell Model	33	S Shaped Electrode	37
Molymod® Organic Chemistry, Teacher Set	47	Plant Moisture Meter	32	S-05 Stereomicroscope	23
Molymod® Replacement Components	49	Plastic PP/PC Desiccator	142	Sabouraud Dextrose Agar	20
		Plastic Soil Sieve	156	Safety Glasses	197
		Plastic Spotting Tile	35	Safety Goggles	197

Safety Matches	138	Solution Chloride Analyser Buffer	94	Unsprung Hardwood Dynamics Trolley	75
Salt Bridge	37	SPARKlink Air Interface	180	Upper Arm Blood Pressure Monitor	19
Sand Purified (Acid Washed)	94	SPARKlink charging station	180	Urease Powder	16
SATZ Digital Ammeter	56	SPARKvue Data logging	188	Use Hand Sanitiser Sign	203
SATZ Digital Voltmeter	56	Spatulas	157	Use Hand Sanitiser Before Entering Sign	203
SBC Lampholder with 12V, 21W Bulb	59	Spatula Trulla	157	UV Range Cuvettes	116
School Event Timer	168	Specimen Containers	133	V	
School Power Station, 1.5A	82	Spectrum Discharge Tubes	78	Valve Pipette Filler	153
School Power Station, 3A	82	Spectrum Tube Power Supply	78	Van de Graaff Generator	67
School Stop Clock	168	Speed of Sound Apparatus	88	Van De Graaff Generator With Accessory Kit	66
SciChem Dynamics System	73	Spirit Burner	137	Variable Micropipette	153
SciChem Electrical Circuit Kits - Components	60	Spirit Level	172	Vector Display	179
SciChem Electrical Circuit Kits - Panel	60	Spirit-Filled Thermometer	167	Vernier Calliper with Fine Adjustment	170
SciChem Electricity Kits - Component Kit	60	Spoon End Stainless Steel Spatula	157	Vibration Generator	87
SciChem Electricity Kits - Panel Kit	60	Spouted Crystallising Basin	129	Virkon Disinfectant	139
Screw Holding Screwdriver Set	171	Square Base Bunsen Burners	137	Virkon Disinfectant Sachets	139
Screwdriver Set	171	Squat Form Beakers	130	Virkon Virucidal Disinfectant	139
Sealed Radioactive Source	84	Squat Form Rolled Rim Vials	175	Visible Range Cuvettes	116
Search Coil	64	Squat Form Screw Neck Vial	175	Voltmeter Hoffman	36
Sebacoyl Chloride 5% in Cyclohexane	94	Stainless Steel Beaker Tongs	169	Volumetric Flask with Polypropylene Stopper	145
Self Adhesive Diamond Hazard Warning	202	Stainless Steel Scoop	156	Volumetric Flasks with Cap	145
Separating Funnel with Glass Stopcock	146	Stainless Steel Soil Sieve Set	156	Vortex Mixer -ISG	124
Separating Funnel with PTFE Stopcock	146	Stainless Steel Triangular Tripod	173	W	
Set of 5 Polypropylene Beakers	130	Stainless Steel Tripod	173	Wall Mounted Draining Rack	143
Set of 5 Polypropylene Measuring Cylinders	141	Standard Linear Air Track	72	Water Deionized	94
Shallow Tray	190	Starch Soluble (ex potato)	94	Water HPLC Grade 1	94
Sharp Point Forceps	12	Static Genecon	66	Water Jet Vacuum Pump	155
Short Form Polypropylene Measuring Jug	147	Steam Generator Kettle	69	Water Monitoring Kit	15
Signs	203	Steel Retort Rod	158	Welding Filter	38
Caution Corrosive Sign	203	Steppa-Stoppa	161	Westminster Motor Kit	54
Caution Hot Surface Sign	203	Sterile Disposable Plastic Syringes	163	Wide Mouth Glass Bottles	132
Danger Acid Sign	203	Sterile Plastic Stick Swab	162	Wire Strippers	172
Danger Chemicals Sign	203	Still Head Adapter	41	Wireless Acceleration/Altimeter	182
Did You Wash Your Hands Sign	203	Stirrer for Calorimeters	70	Wireless Blood Pressure	183
Digital Signal Generator	86	Stirring Rods	160	Wireless CO2 Sensor	183
Face Coverings Must Be Worn Sign	203	Straight Bosshead	158	Wireless Conductivity Sensor	52
Now Wash Your Hands Sign	203	Straight Dissection Needle	12	Wireless Calorimeter	186
Sign Eye Protection Must Be Worn - Rigid Sign	203	Straight Form Absorption Tube	40	Wireless Drop Counter	182
Sign Eye Protection Must Be Worn - Self Adhesive Sign	203	Stuart UC151 Undergrad Analogue Stirrer	122	Wireless EKG Sensor	184
Social Distancing (Folding Sign)	203	Stuart UC152 Undergrad Analogue	121	Wireless Force Acceleration Sensor	182
Standing Sign Caution Slippery Surface	204	Stirring Hotplates	121	Wireless Force Platform	186
Stay A Safe Distance! Sign	203	Stuart UC152D Undergrad Digital Stirring Hotplate	121	Wireless Geiger Counter	184
Warning Biohazard Sign	203	Stuart US150 Undergrad Hotplate	120	Wireless Heart Rate Sensor	183
Warning Chemical Store Sign	203	Student Bell Jar	88	Wireless Hand Held Heart Rate Sensor	184
Warning Chemical Waste Sign	203	Student Digital Joulemeter	69	Wireless Light Sensor	181
Warning Harmful Chemicals Sign	203	Student Dissection Kit	11	Wireless Load Cell	181
Warning Toxic Sign	203	Sucrose	94	Wireless Magnetic Field Sensor	182
Signal Generator & Amplifier	86	Sulphuric Acid	94	Wireless Motion Sensor	185
Silica Gel Self Indicating (orange/green)	94	Supertouch Powderfree Vinyl Gloves, Industrial	201	Wireless Optical Dissolved Oxygen Sensor	183
Silicone Grease	170	T		Wireless Oxygen Gas Sensor	183
Silicone Spray	170	Tall Double Frame	193	Wireless pH Sensor	52/186
Silver Nitrate	94	Tall Form Polypropylene Measuring Cylinders	141	Wireless Polarimeter	187
Simax Measuring Cylinder with Plastic Stopper	141	Tall Form Porcelain Crucibles	140	Wireless Pressure Sensor	183
Simax Mortar & Pestle	151	Tall Form Porcelain Crucibles with Lids	140	Wireless Rotary Motion Sensor	182
Simax Narrow Neck Conical Flasks	144	Tall Form Screw Neck Vials	175	Wireless Sensor Current	182
Simax Reagent Bottles	131	Tall Treble Frame	193	Wireless Light Sensor	181
Simax Squat Form Beakers	130	Tape Measure	150	Wireless Sensor Voltage	181
Simax Tall Form Beakers	130	Test Paper Reels	53	Wireless Smart Cart Red- Blue	178/184
Simple Potometer	32	Test Tube Holders	166	Wireless Smart light Gate	185
Simulated Blood Typing Kit	19	Test Tube Racks	166	Wireless Soil Moisture Sensor	186
Single Bore Glass Burettes	135	Tetrachlorethylene Ultra Analytical Solvent	94	Wireless Sound Sensor	181
Single Head Stethoscope	19	Thermal Conductivity Kit	70	Wireless Spirometer	184
Single Neck Pear Shaped Flasks	43	Thermometer	167	Wireless Spectrometer	186
Skin Model	18	Thiele Melting Point Tube	44	Wireless Temperature Link	181
Smart cart Red- Blue	178/184	Ticker Tape Timer, Tape & Disc	75	Wireless Temperature sensor	181
Smart Cart Motor	179	Timer Light Gate	71	Wireless Weather Sensor	183
Smart Fan	179	Toluene, Puriss. 99.7%	94	Wood Splints	138
Soda Glass Tubing	174	Translucent Clip On Lid For F Range Tray	190	Wooden Lens Holder	79
Soda Glass Medium Wall Test Tube Without Rim	165	Tray Foam Inserts	191	Wooden Test Tube Rack	166
Soda Glass Stirring Rods	160	Trays	172	Wrist Blood Pressure Monitor	19
Soda Glass Test Tubes with Rim	164	Treble width Callero Plus Trolley	192	X	
Sodium Alginate	94	Trimming Knife	172	XUBA Analogue Ultrasonic Bath	111
Sodium Carbonate Anhydrous	94	Tripod Stand with Gauze	173	Y	
Sodium Chloride	94	Trulla Spatula	157	Yellow Rubber Gloves	201
Sodium Hydrogen Carbonate (Bicarbonate)	94	Turning Genes On and Off Lab Investigation	13	Young's Slits	80
Sodium Hydroxide	94	Twin Neck Pear Shape Flask	43	Z	
Sodium Hypochlorite (10-14%Cl)	94	U		Z Shape Test Tube Rack	166
Sodium Iodide	94	U Form Absorption Tubes	40	Zinc Carbon Batteries	129
Sodium Metal in Liquid Paraffin	94	U Form Absorption Tubes with Side Arms	40	Zinc Metal Granular	94
Sodium Sulfate Anhydrous	94	Ultra-Flat Magnetic Stirrer	122	Zinc Metal Powder	94
Sodium Thiosulphate	94	Unit Large Demonstration Set	45	Zinc Plated Steel Tripod	173
Soil Kit	15	Universal Indicator Strips	53	Zinc Sulfate - 7-water	94
Soil pH Meter	51	Universal Indicator pH1-14 & Chart	94		
Soil Test Kit	15	Universal Interface - 850	180		
Soldering Iron and Accessories	172	Universal Stand for Teltron Tubes	85		
Solid Rubber Stoppers	161	Unspouted Crystallising Basin	129		



GENERAL TERMS & CONDITIONS

1 DEFINITIONS

In these Conditions of Sale:

"Seller" means the company supplying the Goods and/or Services, being Scientific & Chemical Supplies Limited (registered in England with company number 00587778). **"Buyer"** means the individual, company or other party with whom the Seller contracts. **"Contract"** means the Contract for the supply of Goods and/or Services entered into pursuant to clause 2 below. **"Services"** means, as applicable, the Services the subject of any order placed with the Seller. **"Goods"** means, as applicable, Goods the subject of any order placed with the Seller.

2 BASIS OF SALE

2.1 Quotations are given and orders are accepted by the Seller only on the basis that these conditions of sale exclusively apply to all Contracts. The Seller shall sell and Buyer shall purchase the Goods and/or Services in accordance with any written quotation of the Seller which is accepted by the Buyer or any written order of the Buyer which is accepted by the Seller subject in either case to these conditions governing the Contract which is formed to the exclusion of any other terms and conditions (including the Buyer's conditions of purchase) subject to which any such quotation is accepted or purported to be accepted or any such order is made or purported to be made by the Buyer.

2.2 Any statement (whether written or oral), description, drawing, photograph, illustration, diagram, or specification concerning the Goods made before the Contract are for the purpose of information and guidance only.

2.3 Where Goods are sold by reference to a description in a catalogue or web site, the Goods are sold subject to tolerances and variations expressed or implied in the catalogue.

2.4 Any typographical, clerical or other error or omission in any document or information issued by the Seller shall be subject to correction without any liability on the part of the Seller.

2.5 Any advice or recommendation given by the Seller for the storage, installation, application or use of the Goods shall not constitute any warranty or guarantee and storage, application, installation and use of the Goods (or the use of the Goods to store other items) shall be entirely at the Buyer's own risk. The Seller shall not be liable for any such advice or recommendation and the Buyer shall ensure that the Goods are properly installed and fitted and thereafter used by a suitably competent and where necessary qualified person.

2.6 The Seller's employees or agents are not authorised to make any recommendations concerning the Goods or Services unless specifically confirmed by the Seller in writing and in entering into the Contract the Buyer acknowledges that it does not rely on any such representation which are not so confirmed.

2.7 References to clauses are to clauses of these conditions and references to sub-clauses are to sub-clauses of the clause in which the reference appears.

2.8 All of these conditions shall apply to the supply of both Goods and Services except where application to one or the other is specified.

2.9 Substances included in the First Schedule of the Poisons Rules under Section 7 of the Poisons Act 1972 are marked "S1". Any order for Goods which could be used for illicit purposes may be subject to additional controls on supply. The Buyer agrees to provide full information including their name, address, status, business or profession, and the purpose for which each product or substance is being supplied for.

3 ORDER AND SPECIFICATIONS

3.1 The Buyer shall be responsible to the Seller for ensuring the accuracy of the terms of any order (including any applicable specification) submitted by the Buyer and for giving the Seller any necessary information relating to the Goods or Services within a sufficient time to enable the Seller to perform the Contract in accordance with its terms.

3.2 No order shall be binding on the Seller unless or until such order is accepted by the Seller unless in writing.

3.3 The Seller reserves the right to make any changes in the specification of the Goods which are required to conform to any applicable safety or other statutory requirements or, where the Goods are to be supplied to the Buyer's specification, which do not materially affect their quality or performance.

3.4 If any of the Goods are found not to be in accordance with the specification agreed between the Seller and the Buyer, the Buyer shall notify the Seller within three (3) days of delivery and the Seller reserves the right to its representative to visit the Buyer's premises to examine the relevant Goods and if any are found to be in accordance with the Seller's not to conform the Seller may at its sole option either:

(a) At its own expense replace the Goods found not to be in accordance with such specification, or

(b) Reduce the contract price by an amount equivalent to that proportion of the price payable in respect of the Goods found not to conform to the agreed specification.

3.5 Save for where clause 8.10 applies, the Goods are non-refundable. If the Seller decides in its absolute discretion to accept the return of the Goods, then it will notify the Buyer accordingly. The Seller may not agree to the return of the Goods unless they are in the same pristine condition as they were in at delivery and the Buyer, if requested, promptly confirms this in writing to the Seller. Where the Seller exercises its discretion as to the return of the Goods then upon the return of the Goods in pristine condition, the Seller shall refund the purchase price plus its administration and returns charge. The administration and returns charge will be a sum equal to 20% of the purchase price of the Goods subject always to a minimum charge of £12.

3.6 Where the Goods returned are not in pristine condition then the Seller shall be entitled at its discretion to either (A) accept the return of the Goods subject to (i) the administration and returns charge and (ii) such further deduction, from the purchase price to be refunded, as the Seller considers appropriate to be required to the Seller in respect of the Goods; or (B) refuse the return of the Goods in these circumstances and in which case it will notify the Buyer accordingly and the Buyer shall be responsible for promptly collecting the Goods in question from the Seller (and the related collection costs) and the Seller shall be entitled to retain all of the purchase price.

3.7 If the Goods are to be manufactured or any process is to be applied to the Goods by the Seller in accordance with a specification submitted by the Buyer, the Buyer shall indemnify the Seller against all losses, damages, costs and expenses awarded against or incurred by the Seller in connection with or paid or agreed to be paid by the Seller in settlement of any claim for infringement of any patent, copyright, trademark or other industrial or intellectual property rights of any person which results from the Seller's use of the Buyer's specification.

4 PRICES

4.1 All prices quoted are exclusive of any applicable Value Added Tax. The Buyer is required to pay any tax, duty or other government charge levied. All Goods will be supplied at the price and VAT rate ruling on the date of dispatch.

4.2 Quotations are only valid for thirty (30) days, or until earlier acceptance by the Buyer.

4.3 The Seller reserves the right to vary prices of Goods and Services in certain circumstances, including additional costs arising from exchange rate and currency movements, and additional costs in packing or transport. The Seller reserves the right to increase prices to recover any additional costs arising from any variation or delay caused by the Buyer's instructions or failure of the Buyer to give the Seller adequate information or instruction. The Seller reserves the right to impose a minimum order quantity or handling/delivery charge for any Goods or Services supplied.

4.4 The Seller reserves the right to recover costs due to the failure of the Buyer to take or accept delivery or to give adequate delivery instructions. Any special delivery requirements must have been notified by the Buyer to the Seller at the time of placing the order.

4.5 The price for the Goods or Services shall (subject to clause 4.7) be that quoted on the Seller's quotation or where no price has been quoted or a quoted price is no longer valid the price shall be the price ruling in the Seller's price list.

4.6 Unless otherwise expressly notified by the Seller, the price for Goods shall be ex the Seller's works. Where the Seller agrees to deliver the Goods otherwise than at the Seller's premises, the Buyer shall be liable to pay the Seller's charges for transport, packing and insurance.

4.7 The Seller's price list for Goods is subject to revision without any notice and any Contract entered into by the Seller is on the understanding that Goods will be supplied at the prices ruling at the date when the Goods are ready for dispatch to the Buyer.

4.8 Unless otherwise specifically stated on the Seller's quotation, any estimate of the price for the supply of Goods or Services given by the Seller is subject to any additional cost of labour or materials or of any additional work which may be found by the Seller to be necessary and which were unforeseen by the Seller at the date of the estimate given.

4.9 Unless previously instructed to the contrary in writing, the Seller will notify the Buyer of any substantial estimated increase in price pursuant to sub-clause 4.8 and will not proceed with the supply of any Goods or Services until notified by the Buyer that the Buyer will pay such increased price. However, if the Buyer does not accept any increase in price within five (5) working days then the Seller reserves the right to cancel the Contract.

5 PAYMENT

5.1 The Seller reserves the right to invoice the Buyer prior to the delivery.

5.2 Payment shall not be withheld pending the settlement of any dispute.

5.3 If the Buyer has an approved account with the Seller, payment of the price (including without limitation the costs of transport, packaging and insurances referred to in clause 4.6) shall be made in full in cash or by cleared funds not later than thirty (30) days following the date of invoice.

5.4 In all other cases, the Seller shall be entitled to invoice the Buyer and payment of the price (including without limitation the costs of transport, packaging and insurances referred to in clause 4.6) shall be made in full in cash at the time when the Goods or Services are ready to be supplied to the Buyer.

5.5 Without prejudice to the Seller's right to prompt payment, if the Buyer fails to make any payment on any due date, then the Seller shall be entitled to suspend all any further deliveries to the Buyer or Goods or the provision of all or any Services (in which event the Buyer shall not be released from its obligations to the Seller or cancel the Contract or claim damages for breach of Contract) and the Buyer shall pay interest at the rate of two percent (2%) per month on the balance of any invoice or other sum remaining unpaid from the due date of payment of the same and on the day of actual payment and shall in addition reimburse to the Seller all reasonable and necessary (including legal costs) incurred in the collection of any overdue balance or account.

5.6 Time for payment is of the essence of any Contract between the Seller and the Buyer.

5.7 All amounts due under the Contract must be paid by the Buyer in full and any right to assert any set off, or any counterclaim against the Seller, shall be excluded.

5.8 The Seller reserves the right to settle any amount owed to it by the Buyer against any amount payable by the Seller to the Buyer.

6 DELIVERY

6.1 The Seller undertakes to use its reasonable endeavours to deliver by the specified delivery dates. However, any dates quoted for delivery of the Goods and Services are approximate only, and the Seller shall not be liable for any delay in delivery. Time of delivery shall not be of the essence unless previously agreed by the Seller in writing. The Buyer shall not be entitled to cancel, delay or refuse payment should delivery be made after the established delivery date.

6.2 The Seller shall not be liable to the Buyer in any way for the loss or damage whatsoever arising due to the delivery or replacement of Goods or supply of Services at a date later than quoted unless the Seller has specifically agreed in writing with the Buyer an agreed sum as liquidated damages and to despatch, deliver or supply at a specified date, which date is agreed by the Seller to be of the essence of the contract. The Buyer is entitled to cancel with the Seller in consequence thereof.

6.3 Delivery of Goods shall be deemed to be made immediately upon collection of the Goods by the Buyer from the Seller's premises or where the Seller agrees to deliver the Goods otherwise than at the Seller's premises immediately upon arrival of such Goods at the Buyer's premises (or such other address notified to the Seller and agreed for the delivery) prior to unloading or unpacking and upon delivery risk in the Goods shall pass to the Buyer. The Seller does not accept any responsibility for any loss or damage to Goods arising during unloading or unpacking.

6.4 The Seller shall be entitled to make delivery of the Goods in instalments and the Buyer shall be obliged to pay for each instalment in accordance with the Seller's usual terms. Every delivery shall constitute a separate contract, and failure by the Seller to deliver any one or more of its instalments in accordance with these conditions or any claim by the Buyer in respect of any one or more instalments shall not entitle the Buyer to treat the Contract as a whole as repudiated. Further, the Seller may invoice for the provision of Goods or Services on a regular basis regardless of whether the total Goods or Services to be provided have been completed.

6.5 If the Buyer fails to accept delivery within three (3) days of receipt in writing that the Goods are ready for delivery, the Buyer shall be liable for storage and other charges. After a further period of ten (10) working days if the Buyer still fails to accept delivery the Seller shall be entitled, without prejudice to its other rights, to resell or otherwise dispose of the Goods.

6.6 The Buyer shall ensure the prompt turnaround of any delivery vehicles and to be indemnify and keep indemnified the Seller or any agent against any loss of liability whatsoever arising from any delay.

6.7 The Buyer must notify the Seller within three (3) days of receipt in respect of shortages, or damage to the Goods failing which proper delivery shall be conclusively presumed to have been made. In the case of total loss the Buyer must notify the Seller in writing (3) days of receipt of the invoice or other notification of despatch.

6.8 Delivery documentation marked "unexamined" or "unchecked" will not be accepted as a conditional signature.

7 RISK AND PROPERTY

7.1 Risk of damage to or loss of the Goods shall pass to the Buyer upon delivery taking place in accordance with these conditions.

7.2 Title to the Goods shall not pass to the Buyer until the earlier of: (a) the Seller receives payment in full (in cash or cleared funds) for the Goods and any other goods that the Seller has supplied to the Buyer in which case title to the Goods shall pass at the time of payment of all such sums; and (b) the Buyer resells the Goods, in which case title to the Goods shall pass to the Buyer at the time specified in clause 7.4.

7.3 Until title to the Goods has passed to the Buyer, the Buyer shall:

(a) store the Goods separately from all other goods held by the Buyer so that they remain readily identifiable as the Seller's property;

(b) not remove, deface or obscure any identifying mark or packaging on or relating to the Goods;

(c) maintain the Goods in satisfactory condition and keep them insured against all risks for their full price on the Seller's behalf from the date of delivery;

(d) notify the Seller immediately if any of the events listed in clause 12 entitle the Seller to terminate the Contract or any part of it;

(e) give the Seller such information relating to the Goods as the Seller may require from time to time.

7.4 Subject to clause 7.5, the Buyer may resell or use the Goods in the ordinary course of its business (but not otherwise) before the Seller receives payment for the Goods. However, if the Buyer resells the Goods before that time then it does so as principal and the Seller's title to the Goods shall pass to the Buyer at the time specified in clause 7.4.

7.5 If before title to the Goods passes to the Buyer, any of the events listed in clause 12 entitle the Seller to terminate the Contract occur then notwithstanding any other right or remedy the Seller may have the Buyer's right to resell Goods or use them in the ordinary course of its business ceases immediately; and (b) the Seller may at any time: (i) require the Buyer to deliver up all Goods in its possession which have not been resold, or irrevocably incorporated into another product; and (ii) if the Buyer fails to do so promptly, enter any premises of the Buyer or of any third party where the Goods are stored in order to recover them.

7.6 The Seller shall be entitled to recover payment for the Goods notwithstanding that title to those Goods has not passed from the Seller to the Buyer.

7.7 All worn or damaged materials replaced by the Seller in the course of its supply of any Goods or Services to the Buyer shall, upon the Buyer's default in payment to the Seller in respect of such supply, become the property of the Seller and may be freely disposed of by the Seller.

8 WARRANTY AND LIABILITY

THE CUSTOMER'S ATTENTION IS IN PARTICULAR DRAWN TO THE PROVISIONS OF THIS CLAUSE 8.

8.1 Where the Seller is the manufacturer of the Goods or assembles the Goods then the Seller warrants that on delivery, and for a period of twelve (12) months from the date of delivery (Warranty Period) that the Goods shall:

(a) conform in all material respects with their description and any applicable specification provided by the Seller as regards those Goods; and

(b) be free from material defects in material and workmanship. Such warranty does not extend to parts, materials or equipment not manufactured or assembled by the Seller.

8.2 The Seller further warrants that any Services it provides to the Buyer will be provided with reasonable skill and care.

8.3 Any claim by the Buyer which is based on a breach of warranty under clause 8.1 (Goods) must be notified within as soon as reasonable practical after discovery and in any event within the Warranty Period.

8.4 Any claim by the Buyer which is based on a breach of warranty under clause 8.2 (Services) must be notified to the Seller within three (3) days from the date of provision of the Services or, where the defect or failure was not reasonably apparent at that time, within a reasonable time after discovery and in any event within seven (7) days of discovery. Where the Seller accepts that the Buyer has brought a legitimate warranty claim in relation to its provision of Services then it shall at its option re-perform any defective Services or refund the price (or as applicable a reasonable and proportionate part of the price) of the defective Services.

8.5 Subject to clause 8.6, the Seller shall, at its option, repair or replace defective Goods, or refund the price (or as applicable a reasonable and proportionate part of the price) of the defective Goods if:

(a) the Buyer gives notice in writing during the Warranty Period that some or all of the Goods do not comply with the warranty set out in clause 8.1 in accordance with clause 8.3;

(b) the Seller is given a reasonable opportunity of examining such Goods;

(c) the Buyer (if asked to do so by the Seller) returns such Goods to the Seller's place of business at the Buyer's cost; and

(d) the Seller accepts that the Buyer has brought a legitimate warranty claim.

8.6 The Seller shall not be liable for the Goods' failure to comply with the warranty under clause 8.1 if:

(a) the Buyer makes any further use of such Goods after giving a notice in accordance with clause 8.3;

(b) the defect arises because the Buyer failed to follow the Seller's oral or written instructions as to the storage, installation, commissioning, use or maintenance of the Goods or (if there are none) good practice;

(c) the defect arises as a result of the Seller following any drawing, design or Goods Specification supplied by the Buyer;

(d) the Buyer alters or repairs such Goods without the written consent of the Seller;

(e) the defect arises as a result of fair wear and tear, wilful damage, negligence, or abnormal working conditions; or

(f) the Goods differ from their description the Goods Specification as a result of changes made to ensure they comply with applicable statutory or regulatory standards.

8.7 The warranty terms shall apply to any repaired or replacement Goods supplied by the Seller and the Seller's obligation to provide such replacement of the Warranty Period which lasts for a period of twelve (12) months from the date of delivery of the original Goods supplied.

8.8 Where the Seller is not the manufacturer of the Goods, the Seller will use its reasonable endeavours to pass onto the Buyer the benefit of any warranty or guarantee given by the applicable supplier or manufacturer.

8.9 The Buyer in clause 8.1 does not extend to parts, materials or equipment not manufactured by the Seller. The Buyer will not be able to rely upon a warranty or guarantee given by the applicable supplier or manufacturer if one or more of the following apply:

(A) the defect arises because the Buyer failed to follow any instructions as to the storage, installation, commissioning, use or maintenance of the Goods or (if there are none) good practice;

(B) the Buyer or its agent alters or seeks to repair such Goods itself;

(C) the defect arises as a result of fair wear and tear, wilful damage, negligence, or abnormal working conditions; or

(D) the Goods differ from their description their specification as a result of changes made to ensure they comply with applicable statutory or regulatory standards.

8.10 No warranty is given that the Goods are suitable for any particular or special purposes or for use in connection with any equipment or other product or item unless expressly given in writing by the Seller.

8.11 In all circumstances where the Buyer returns any Goods to the Seller the Buyer shall be responsible for ensuring that Goods returned to the Seller are free from hazard, including biological, chemical or radioactive. The Seller reserves the right to refuse to accept any Goods which in its view present a hazard or may infringe any legislation, or as without a signed declaration that the Goods are free from any contamination or infection.

8.12 Payment for any alleged defective Goods or Services shall not be withheld by the Buyer pending investigations by the Seller as to the legitimacy of any warranty claim. If the total price has not been paid by the due date, then the Seller shall not be liable for its warranty until the total price has been paid by the Buyer to the Seller.

8.13 Nothing in these conditions shall limit or exclude the Seller's liability for: (a) death or personal injury caused by its negligence; (b) fraud or fraudulent misrepresentation; or (c) any other matter in respect of which it would be unlawful to exclude or restrict liability.

8.14 Subject to clause 8.13 the Seller shall not be liable to the Buyer, whether by contract, tort (including negligence), breach of statutory duty or otherwise, for any one or more of the following:

(a) for any loss of profit or loss of business (whether, in each case, direct or indirect loss);

(b) for any indirect or consequential loss arising under or in connection with any Contract between the Seller and the Buyer; and

(c) for any loss or damage to any other asset, product or substance resulting from any use of the Goods in circumstances where the Goods supplied are incorporated in or form part of another product or contain or hold other products or substances.

8.15 Subject to clauses 8.13 and 8.14 the Seller's total liability to the Buyer as regards all other claims (whether for breach of contract, in tort (including negligence), breach of statutory duty or otherwise) under or in respect of each Contract shall not exceed 125% of the price of the Goods and/or Services under the Contract in issue (excluding always vat and delivery charges).

8.16 Subject expressly provided in these conditions, all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

8.17 The Buyer shall hold harmless and keep the Seller indemnified against all claims of whatsoever nature made against the Seller by any third party pursuant to the Seller's provision of Goods or Services under a Contract, save to the extent that such claims have arisen from a breach of the Contract by the Seller.

9 DUTY OF CARE

9.1 The Buyer has a responsibility to ensure all Goods supplied, (especially hazardous substances) are stored and where appropriate installed and thereafter used responsibly and in accordance with all the appropriate regulations, requirements and recommendations. The Buyer shall take all appropriate precautions to ensure the safe and suitable installation, handling and use of the Goods. The Buyer is responsible for taking all steps necessary to eliminate or reduce the risk to health and/or safety arising out of the installation, possession and use of the Goods.

9.2 Any Goods supplied by the Seller are intended for experimental laboratory use only and are not intended to come into contact with food or drink for human or animal consumption, or for use as drugs for humans or animals, or medical devices, unless otherwise clearly stated.

10 INDEMNITY

10.1 The Seller and it supplies own intellectual property rights in the Goods and in related literature and brochures. As such the Buyer undertakes that it shall not make copies of the Goods or of the Seller's catalogues, brochures, leaflets (or any parts thereof) without the prior and express written approval of the Seller.

10.2 The Seller shall have no liability for the infringement of any rights of any third party arising from the manufacture, supply or use of the Goods, to the extent that such claims arise from the Goods being used by the Buyer in combination with any other goods, trademarks, specifications or processes not supplied by the Seller and the Buyer shall hold harmless and keep the Seller indemnified against all such claims.

10.3 The Seller reserves the right to suspend performance of the Contract until a licence is obtained from the owner of any relevant third party intellectual property rights to permit their use.

11 EXPORT TERMS

11.1 In these conditions "Incoterms" means the international rules for interpretation of trade terms of the International Chamber of Commerce as in force at the date when the Contract is made. If there is any conflict between the definition of particular meaning given to a term or expression by the Incoterms and the meaning given to the same term or expression by the Seller and the Buyer shall hold harmless and keep the Seller indemnified against all such claims.

11.2 Where the Goods are supplied for export from the United Kingdom the provision of this clause shall (subject to any special terms agreed in writing between the Buyer and the Seller) apply notwithstanding any other provision of this Contract.

11.3 The Buyer shall be responsible for complying with any legislation or regulations governing the importation of the Goods into the country of destination and for the payment of any duties on them.

11.4 Unless otherwise agreed in writing between the Buyer and the Seller the Goods shall be priced and delivered ex works the Seller's premises at Carlton House, Livingstone Road, Bilton, West Midlands, WV14 0QZ. Incoterms 2010, and the Buyer shall use no notation to give notice under Section 32 (3) of the Sale of Goods Act 1979.

11.5 The Buyer shall be responsible for arranging for testing and inspection of the Goods at the Seller's premises before shipment the Seller has no liability for any claim in respect of any defect in the Goods which would be apparent on inspection and which are made after shipment or in respect of any damage during shipment.

11.6 Payment of all amounts due to the Seller shall be made by irrevocable letter of credit opened by the Buyer in favour of the Seller and confirmed by a bank acceptable to the Seller or the Seller shall agree in writing or before acceptance of the Buyer's order to waive this requirement by acceptance by the Buyer and delivery to the Seller of a bill of exchange drawn by the Buyer payable sixty days after sight of the order of the Seller at such bank as the Seller shall specify or at Bank of England as may be specified in the Bill of Exchange.

12 IF THE BUYER DEFAULTS

12.1 If the Buyer defaults in paying any sum due under any Contract with the Seller as when such sum becomes due or commits any breach of any of its obligations to the Seller or in distress or expropriation is levied on any of the Buyer's Goods or the Seller makes any arrangements with its creditors or commits any act of bankruptcy or goes into, threatens liquidation or if a receiver or manager or administrator is appointed of the whole or any part of its assets, the Seller may forthwith suspend all further supplies of Goods or Services until the default has been made good or adequate compensation furnished or may determine its contract with the Buyer so far as any Goods or Services remain to be delivered without liability but without prejudice to any claim which the Seller might otherwise have for breach of Contract and/or for the price of Goods or Services already supplied.

13 GENERAL

13.1 No waiver by the Seller of any breach of the Contract by the Buyer shall be considered as a waiver of any subsequent breach of the same by any person.

13.2 If any provision of these conditions is held by a competent authority to be invalid or unenforceable in whole or in part, the validity of the other provisions of these conditions and the remainder of the provision in question shall not be affected.

13.3 The Contract and any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with it or its subject matter or formation shall be governed by and construed in accordance with the laws of England and Wales. Each party irrevocably agrees that the courts of England and Wales shall have exclusive jurisdiction to settle any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with the Contract or its subject matter or formation.

13.4 The Seller shall be at liberty to sub-contract the supply of any Goods or Services which is contracted with the Buyer to supply.

13.5 All drawings, descriptive matter, diagrams, photographs or specifications submitted with a quotation of the Seller and the descriptions and illustrations contained in the Seller's catalogues, price lists and all other advertising material of whatsoever nature are intended to be an appropriate guide only giving a general idea of the Goods or Services described therein and none of them shall form part of any Contract.

13.6 The Buyer shall indemnify the Seller against all liabilities incurred by the Seller by reason of any proceedings, claims or demands which may be brought or made against the Seller (including all damages, losses and expenses awarded against or incurred by the Seller) arising from infringement of any patent or other intellectual property of any third party by reason of anything done by the Seller pursuant to designs, specifications or instructions, explicit or implied, furnished by the Buyer to the Seller.

13.7 Where the Buyer delivers to the Seller property of a person other than the Buyer for the Seller to supply Services in respect of such property, the Buyer shall be deemed to be the agent of the owner of the property and to contract on the owner's behalf.

13.8 THE SELLER'S PRICES FOR THE SUPPLY OF GOODS OR SERVICES ARE CALCULATED ON THE BASIS THAT THE SAME ARE SUPPLIED ON THESE CONDITIONS OF BUSINESS, INCLUDING ALL EXCLUSIONS OR RESTRICTIONS OF THE SELLER'S LIABILITY CONTAINED HEREIN AND THE BUYER RECOGNISES THAT BY CONTRACTING ON THESE CONDITIONS, IT IS THEREBY OBTAINING THE BENEFIT OF PRICES CALCULATED.

13.9 The conditions shall constitute the entire agreement in relation to the subject matter and no modification or waiver thereof shall be valid unless made in writing expressed in whole or in part to be signed by an authorised officer of the Seller and of the Buyer provided that nothing in these conditions shall exclude or limit liability for fraud.

13.10 Unless expressly provided in these conditions, no term of the Contract is enforceable pursuant to the Contracts (Rights of Third Parties) Act 1999 by any person who is not a party to it.

14 DATA PROTECTION

14.1 The Seller and the Buyer shall comply with their respective obligations under the Data Protection Legislation. The Buyer's attention is also drawn to the Seller's privacy policy which can be accessed via the Seller's website. In this clause Data Protection Legislation means the Data Protection Legislation and any subsequent legislation relating to personal data and all other legislation and regulatory requirements in force from time to time which apply to a party relating to the use of personal data and for these purposes UK Data Protection Legislation means all applicable data protection and privacy legislation in force from time to time in the UK.

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21



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