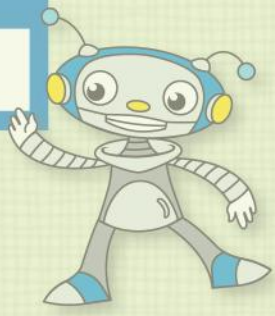
QUICKCHECK™ MATH



Grade level
Grade 2

KINESIS EDUCATION

MEASUREMENT

Compare, Describe and Order Objects and Time Using Measurable Attributes

Book title

KINESIS EDUCATION

Strand

KINESIS EDUCATION

QUICKCHECK™ MATH

COMPARE, DESCRIBE AND ORDER OBJECTS AND TIME USING MEASURABLE ATTRIBUTES

Student Activities

The title of the resource relates to an Overall Expectation of the Math Curriculum. K/E KINESIS EDUCATION

Groups of activities are organized around key Math concepts as they relate to the expectation noted in the title. K/E KINESIS EDUCATION

The learning outcome for each activity is listed. This makes it easier for teachers to target specific concepts for **teaching**, **diagnostic** or **formative** assessment purposes. K/E KINESIS EDUCATION

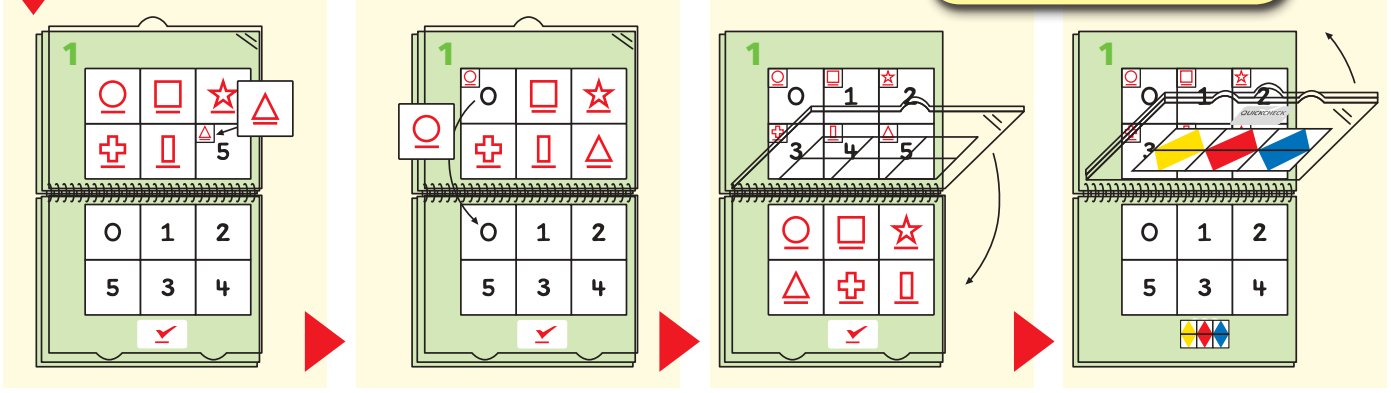
Teacher Section

How to use K/E KINESIS EDUCATION

Teachers will find helpful tips and Learning Connections Activity Suggestions at the back of each resource. K/E KINESIS EDUCATION

GETTING READY TO USE QUICKCHECK

You need a Student Resource and a case with six tiles



- Open the Student Resource to Activity **1**.
- **Put the empty tile case over the Student Resource.**
- The CHECKMARK will cover the answer key.
- There are six squares in the top section.
- Place each tile on the square that has the same icon.

- Lift each tile to reveal the image underneath.
- Transfer each tile to its corresponding image below.

- Close the cover of the tile case.

- Flip the tile case up.
- The answer key will appear.
- The tile pattern should match the answer key.

- **Watch students using *QUICKCHECK Math* on our website at www.ebbp.ca. Click on *QUICKCHECK Math in Motion.***

1 Compare each object to another of the same length.

■ This activity is the first in a series of four that look at length as a measurable attribute of objects.

The activity extension provides new information for teachers or, ideas for further development of the activity.

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The activity title states the targeted learning outcome: Teachers know the purpose of the activity at a glance.

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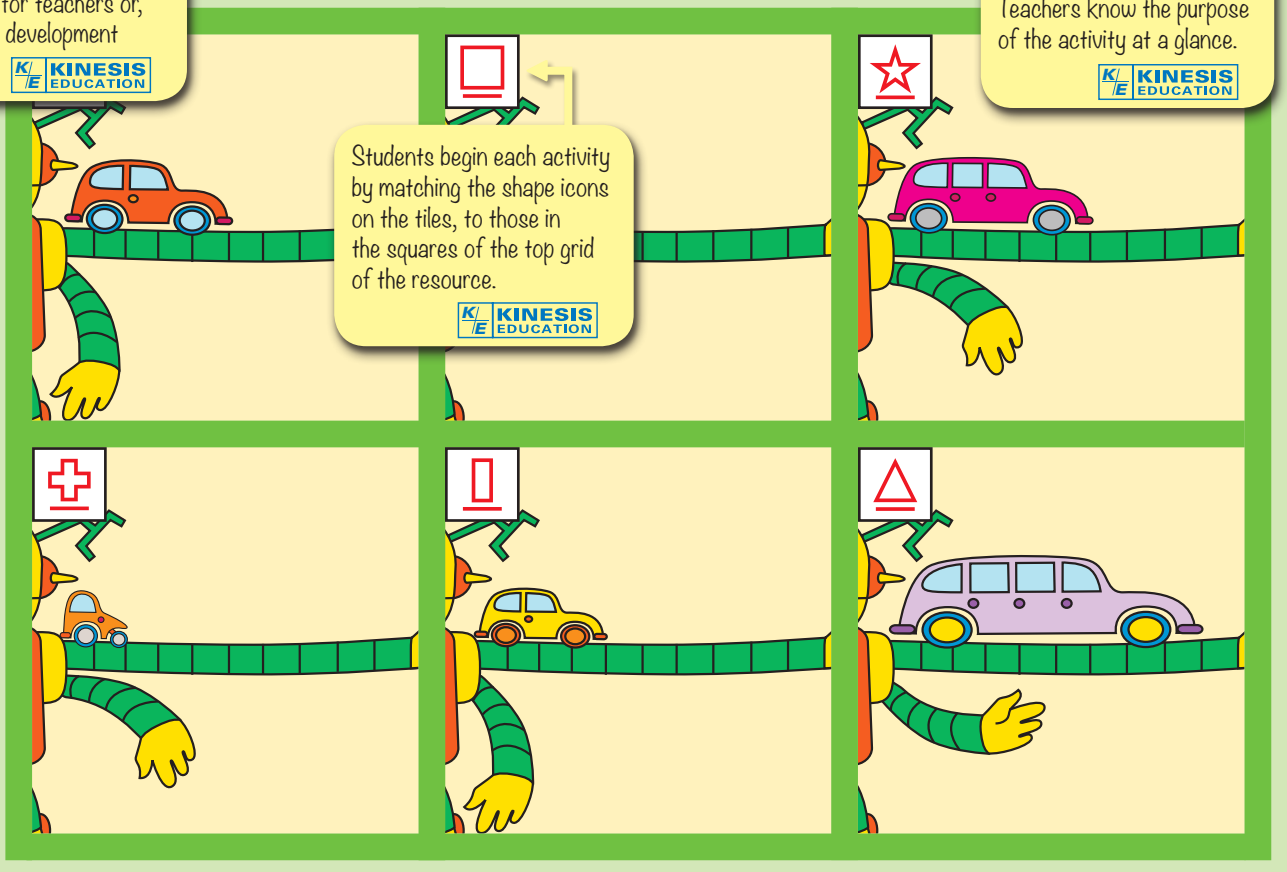
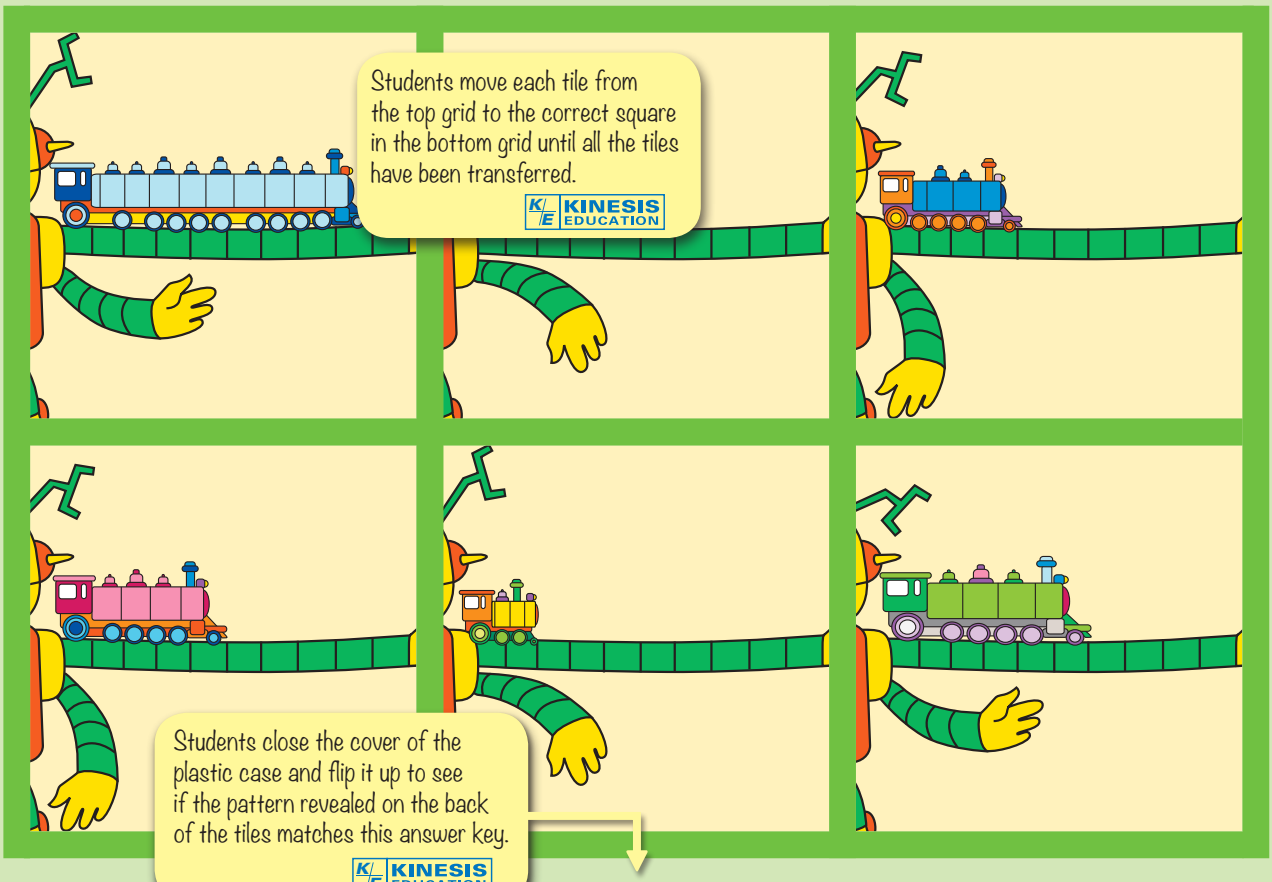


Students begin each activity by matching the shape icons on the tiles, to those in the squares of the top grid of the resource.

KINESIS EDUCATION



Students move each tile from the top grid to the correct square in the bottom grid until all the tiles have been transferred.

KINESIS EDUCATION

Students close the cover of the plastic case and flip it up to see if the pattern revealed on the back of the tiles matches this answer key.

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If ■ appears below the activity title:

Educators will then find new information or ideas for further development of the activity.

+ 23 activities

KINESIS EDUCATION

How to Use QUICKCHECK Math

1. Use QUICKCHECK Math with your students whenever you would normally use a worksheet or workbook.

— Use it at any point in your math lesson:

Before/getting started
During/working on it
After/practice and consolidation.

— You can use QUICKCHECK Math as a small group or guided activity, in pairs to promote discussion, or as an independent activity in a Math Centre.

2. Use QUICKCHECK Math as an a

The Student Activities found on
cover list learning outcomes that will help target specific concepts for **diagnostic** or **formative** assessment purposes.

This Student Resource is used in conjunction with the QUICKCHECK Math Grade 2 Ongoing Assessment Teacher Resource.

Additional proposals for the teacher

KINESIS EDUCATION

Activity Extension:

If ■ appears below the activity title:
Educators will then find new information or ideas for further development of the activity.

Tips for Success

Review "Getting Ready to Use QUICKCHECK" on the first page of this book.

The CHECKMARK ✓ at the bottom of the plastic tile case shows students how to orient the case as they place it on the book on top of each activity.

To teach your students how to use QUICKCHECK Math, try a three-step approach.

1. **Match**: Place all the tiles in the top grid by matching icons.
2. **Think and Play**: Lift each tile to reveal the image beneath and then transfer the tile to the corresponding image in the lower grid.
3. **Check**: Close the case cover. Flip the case up and check that the tile pattern matches the answer key.

When information appears below the title of an activity, use it to guide instruction and discussion, or to provide a hands-on extension of the activity.

Fold the Student Resource in half or stand it up and use the visual information as the stimulus for activities you create on your own.

See Activity 24

LEARNING CONNECTION ACTIVITY SUGGESTIONS

Mathematical Process Expectations: Problem Solving, Communicating and Selecting Tools and Computational Strategies

These learning connection activity suggestions are organized around the same key math concepts addressed in the 24 activities. They relate to some of the Mathematical Process Expectations used in the Math Curriculum.

KINESIS EDUCATION

Compare, order and represent length, height and distance measur and standard units

Put students in small groups. Challenge each group to order themselves e.g. of hair or of shoes. To make it fun, give them a time limit. Can the measurable attribute each group used?

Challenge

Have each group prove they ordered themselves correctly. "What tool/ to measure yourselves, e.g. centimetres, metres, shoe lengths, connecti

Remind students of two important things to remember when measuring:

1) The non-standard units you use all have to be the same size, just as standard units are. For instance, if students use pencils, then they all have to be the same length.

2) Units have to be laid down end to end with no space in between.

Compare, order and represent area measured in a variety of non-standard units

Have students draw two closed, straight-sided shapes, one on each of two pieces of paper. Have them pick two differently-shaped pattern blocks to cover the area inside each shape. On a chart, have students estimate, measure and record how many of each pattern block it will take to cover the area of each shape.

My Shape — ***examples only***	⬢	✚
Estimate of Area Measured in: ▲		
Area Measured in: ▲		
Estimate of Area Measured in: ■		
Area Measured in: ■		

TEACHER SECTION

Compare, order and represent mass and capacity measured in a variety of non-standard units

At a Math Centre, have partners determine the relative capacity of five containers in the classroom. Use the smallest container as the unit of measure. Students will see that when they choose a smaller container as a measure, they can compare how many of that container it takes to fill each of the four others; e.g., the coffee cup contains five full small paper cups of water; the sand pail holds twenty full small paper cups; the small coffee can holds twenty-five full small paper cups; etc. Ask partners to show their findings using a graph or a pictograph.

Challenge

"Can you make two objects of different masses balance? Write a Math sentence to communicate how you did it."

Tell time to the quarter hour using analogue and digital clocks

Choose a time to the quarter or three quarters of an hour. Show it in two ways. What time will it be in one hour from the time you chose? What time was it an hour before the time you chose? Write two Math sentences to prove your answer.

Challenge

Draw a picture of what you might be doing at that time for both AM and PM.

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The 5 mathematical strands for the Grade 2 level

KINESIS EDUCATION

QUICKCHECK MATH

NUMBER SENSE AND NUMERATION

Solve Addition and Subtraction Problems of One and Two-Digit Whole Numbers and Explore Multiplication and Division

MEASUREMENT

Compare, Describe and Order Objects and Time Using Measurable Attributes

GEOMETRY AND SPATIAL SENSE

Compose and Decompose Shapes and Figures

PATTERNING AND ALGEBRA

Identify, Describe and Extend Repeating, Growing and Shrinking Patterns

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