## QUICKCHECK

## MATH 1020 0,

## S1.1.1 11111111111111111111111111111111111

$\square$

NUMBER SENSE AND NUMERATION
Understanding Quantity


## Student Activities

The title of the resource relates to an Overall
Expectation of the Math


## Understanding quantity: equivalent sets;

 conservation and subitizing; comparing; orderingRelate each set of ants to its corresponding set
Relate each set to its corresponding set $\qquad$ Connect each set of insects to its corresponding group p..

Compare each decomposition of
to its corresponding composition .................................. 14
Groups of activities are ach composition of 5 organized around key Math concepts as they relate to the expectation noted
responding decomposition15
number
resentation on a five frame. .16
ch five frame representation responding representation

Connect each set of lanterns to its correspondir
Compare each quantity to its corresponding set
Relate each set to its corresponding set.
Connect each set of connecting cubes
to its corresponding set of towers $\qquad$7
Connect each set of beadsto its corresponding pair of bead strings
$\qquad$ 8 in the title.
on a number line.17
Relate each number
to the anchor of 5 on a number line ..... 18
Number relationships: numerals; compositionsof 10: 10 ac an anchor

Compare the number of dots on each ladybug to the same number of counters on a dot plate
Compare each sequence of ladybugs to its missing part.
t... $\qquad$
$\square$
Compare each sequence of number cubes to its missing part.

Number relationships: numerals; compositions of 5; 5 as an anchor number
Compare each number of fingers shown to its corresponding numeral12
Connect each numeralto its corresponding quantity13

The learning outcome for each activity of fingers shown is listed. This makes it easier for teachers pumeral.19 to target specific concepts for teaching, ff fingers diagnostic or formative assessment on a number line.......................... 20 purposes. $\quad$ K/E KINESIS
ompare each composition of 10 to its corresponding decomposition .............................. 22
Relate each number to its representation on ten frames or five and ten frames. 23
Relate each number to the anchor of 10 on a number line 24

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## Learning Connection Activity Suggestions

Mathematical Process Expectations:
Problem Solving, Representing and Communication ..
26



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

- Close the cover of the tile case.

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

- 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.

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

Relate each set of ants to its corresponding set.
This activity is the first in a series that deals with equivalent sets. Notice: are students counting each set of ants or are they recognizing the quantity automatically from its visual formation (subitizing)?


## 



## 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.


## Tips for Success

Review "Getting Ready to Use QUICKCHECK" on the first page of this book.
The CHECKMARK $\qquad$ 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. Use QUICKCHECK Math as an a The Student Activities found or $\quad \frac{K}{E} |$| KINESIS |
| :--- | :--- |
| EDUCATION | 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 Kindergarten Ongoing Assessment Teacher Resource.

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




$\qquad$
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.

To summarize, reflect on and discuss the class's results; create a table on mural paper or on a blackboard, where each composition of 5 is represented by the headings: 1 and $4 ; 2$ and $3 ; 3$ and 2 ; and 4 and 1 (shown visually or visually and with number statements). Then, help students determine in which section their composition fits. Place it in that spot. If students want they can try another composition of 5 that is different from their first.

## Number relationships: numerals; 10 as an anchor number

Use a ten frame to help students work through a variety of problems that are solved most efficiently by using 10, their knowledge of compositions of 10, and 10 as an anchor number.

1. Using two-colour counters, have students demonstrate the following problems on a ten frame: You have five yellow balls and five red balls. How many balls all together? You have two yellow balls and Sasha has eight red balls. How many balls do you have all together? You need ten balloons for your party. You have blown up seven; how many more do you need to blow up?
Here is a simple open-ended problem that provides for a range of appropriate answers: There are ten balls; how many are red and how many are yellow?
2. Have students fill a ten frame with round counters of the same colour. Pose some questions that they can demonstrate using the ten frame: You have ten balls; give two to your friend; how many are left? You have ten balloons and a friend gives you one more. How many do you have now?
Maya and her friend Vaughan have thirteen pennies. Ten are Maya's. How many pennies are Vaughan's?

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## Canadäa

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The 5 mathematical strands for the Kindergarten level

K| Ke|

NUMBER SENSE AND NUMERATION

Understanding Quantity and Number Relationships


Compare and Order Two or More Objects
According to One Measurable Attribute

QUICKCHECK MATH

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