QUICKCHECK

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UNDERSTANDING QUANTITY AND NUMBER RELATIONSHIPS

Student Activities

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

Understanding quantity: equivalent sets; <	Compare each decomposition of 5
conservation and subitizing; comparing; ordering	to its corresponding composition14
Relate each set of ants to its corresponding set	ach composition of 5
Relate each set to its corresponding set	responding decomposition
Connect each set of insects	number
to its corresponding group	resentation on a five frame
Connect each set of lanterns to its corresponding in the title.	ch five frame representation
Compare each quantity to its corresponding set	responding representation
Relate each set to its corresponding set	on a number line17
Connect each set of connecting cubes	Relate each number
to its corresponding set of towers 7	to the anchor of 5 on a number line18
Connect each set of beads	Number relationships: numerals: compositions
to its corresponding pair of bead strings	of 10: 10 as an anchor
Compare the number of dots on each ladybug	utcome for each activity of fingers shown
to the same number of counters on a dot plate is listed. This	makes it easier for teachers numeral
Compare each sequence of ladybugs	ific concepts for teaching, of fingers
to its missing partdiagnostic or	formative assessment on a number line
Compare each sequence of number cubes purposes.	Sition of 10
to its missing part	to its corresponding composition
Number relationships: numerals; compositions	Compare each composition of 10
of 5; 5 as an anchor number	to its corresponding decomposition
Compare each number of fingers shown	Relate each number to its representation
to its corresponding numeral 12	on ten frames or five and ten frames
Connect each numeral	Relate each number
to its corresponding quantity13	to the anchor of 10 on a number line24

Teacher Section

How to Use QUICKCHECK Math
and Tips for Success

Learning Connection Activity Suggestions Mathematical Process Expectations:

Problem Solving, Representing and Communication ... 26

How to use

GETTING READY TO USE QUICKCHECK You need a Student Resource and a case with six tiles

Teachers will find helpful tips and Learning Connections Activity Suggestions at the back of each resource.



- 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.



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 🚩 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.

2. Use QUICKCHECK Math as an a

Additional proposals for the teacher

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 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.

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 22



LEARNING CONNECTION ACTIVITY SUGGESTIONS

Mathematical Process Expectations: Problem Solving, Representing and Communication

Understanding Quantity: equivalent sets; ordering

Create a Big Book illustrating quantities to 10 with your stu get their *minds-on* for this task, provide several different m counters, number cubes and dominoes, so students can ma quantity you are working on. Using cardboard pages, work Mathematical Process Expectations at a time. Leave room for the numeral at the top of each paused in the Math Curriculum. group Math lesson, guide students to represent quantities 1

These learning connection activity suggestions are organized around the same key math concepts addressed in the 24 activities. They relate to some of the

of ways: cut out pictures of a quantity from magazines; use cotton balls, stickers; cut out shapes from material of different textures. Encourage the children to tell you "how many" they made. Write what they say below their representation.

Provide five and ten frame templates for students who are able to use them to represent each quantity.

Number relationships: numerals; compositions of 5

Give students eight connecting cubes, four of one colour and four of another. Have students make/compose a "train" of five using both colours (if you want to include 5 and 0 and 0 and 5 then give students five of each colour of connecting cube). Once students have composed their train, have them represent it on a five frame template by colouring each section with the same colours as the cubes they used in their train. Ask the children to tell you how they made 5.

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.

 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?

Canadä

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OUICKCHECK

The 5 mathematical strands for the Kindergarten level

NUMBER SENSE AND NUMERATION

Understanding Quantity and Number Relationships





MEASUREMENT

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



GEOMETRY AND SPATIAL SENSE

dentify and Describe Shapes and Figures



PATTERNING Identify, Extend and Reproduce

Repeating Patterns



DATA MANAGEMENT AND PROBABILITY

6)

Sort, Classify, Represent and Compare Objects Using a Variety of Attributes



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