## QUICKCHECK

## MATH

 $\frac{1020}{20}$

## Student Activities

## Colour is an attribute of objects that can be repeated and extended in a pattern

Match each AB repeating pattern by colour
Match each AB repeating pattern by colour 1

Match each AABB repeating pattern by colour
Match each $A B C$ repeating pattern by colour................... 4
Connect each $A B$ repeating pattern to its extension........ 5
Connect each $A B C$ repeating pattern to its extension 6

The title of the resource relates to an Overall Expectation of the Math Curriculum. $\frac{K / E / E \text { KINESIS }}{\text { EDUCATION }}$

## Relate each $A B C$ repeating size pattern to its match in a different colour <br> 15

Relate each repeating pattern by size ..... 16
Connect each repeating size pattern to its extension ..... 17
Connect each extension to its repeating size pattern ..... 18
The same pattern rule can be reproduced in different ways

|  |  | repeating pattern pnding pattern by colour $\qquad$ 19 |
| :---: | :---: | :---: |
| an attribute of objects that can | Groups of activities are organized around key Math concepts as they relate to the expectation noted in the title. |  |
| be repeated and extended in a pattern |  |  |
| Match each $A B$ repeating pattern by shape. |  | ng pattern by shape.. |
| Match each AABB repeating pattern by shape |  | ing pattern |
| Connect each AABB repeating shape pattern |  | patz |

## Specific terms in repeating patterns can

 be identified based on a pattern ruleConnert each $\triangle R C$ reneating colour pattern to its corresponding pattern .......................................... 10

How to Use QUICKCHECK Math
and Tips for Success
25
Size is an attribute of objects that can
be repeated and extended in a pattern
Match each $A B$ repeating pattern by size size elate each AABB repea
using shape as a clue ating pattern by size using shape as a clue...................................................... 14

## Teacher Section




- 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.


## Learning Connection Activity Suggestions

Mathematical Process Expectations:
Communicating and Problem Solving
26
Teachers will find helpful tips and Learning Connections Activity Suggestions at the back of each resource.

| K/E | $\begin{array}{l}\text { KINESIS } \\ \text { EDUCATION }\end{array}$ |
| :--- | :--- |



- 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. En





## 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 KE 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.

## LEARNING CONNECTION ACTIVITY SUGGESTIONS

## Mathematical Process Expectations: Communicating and Problem Solving

## Colour, shape and size are attributes of objects that can be repeatr

 and extended in a patternHold a "Pattern Party":
Celebrate what you are learning about patterning by hosting a class " $\mathrm{Pi}_{i}$ students invite a guest: parent, grandparent, or sibling, or invite your cl Make a standard invitation template and ask students to add a repeatir Mathematical Drocess Expectations party activities and snacks so they include repeating patterns. For exam used in the Math Curriculum.

1) Buy red and blue plates. "I have red and blue plates for the party. Let's set the plates for the party in a pattern on each table. How could we set them up?" On chart paper, draw a picture of the students' suggestions. Then have the group check to see if it is a repeating pattern. Students can use table templates to plan their suggestions before discussing with the group. Based on the ideas shared, plan to set your tables with patterns suggested by the students.
2) Prior to party day, have each student make a repeating colour pattern party crown using two differently-coloured bingo daubers or shape stickers.
3) Decorate the room with pattern art: use different pasta shapes to make textured repeating patterns.

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

4) Have each student make a pattern book to share with their guests. Ideas for books: colour pattern books using bingo daubers, shape pattern books using shape stickers or size pattern books using markers. Have students "read" their patterns to their guests, then prepare the students with simple guessing games they can play with their guest using their books. E.g. "Can you guess what would come next?" Students hide a piece of the pattern under their hand: "Can you guess which part of my pattern is hidden?"

## Sound is an attribute of objects that can be repeated and extended in a pattern

Sit in a circle and have students turn and talk to a/their neighbour to come up with a pattern that uses sound: clapping, tapping on laps. Ask for volunteers to share their ideas. Write several ideas on chart paper or a white board. Have the class chant each pattern as you or a volunteer point to each word. Then as a group, do selected patterns in unison.

Next, start with an A, B, A, B... pattern and go around the circle having each student do one term in the pattern (e.g. first student claps, the next one taps, the next one claps and so on). See if the class can extend the pattern all the way around the circle. Starting with the same student as before, have the class chant the pattern as they do the actions. Finally, extend the activity and have each child alternate saying "A, B, A, B..."

## The same pattern rule can be reproduced in different ways

Beginning with an A, B, A, B... pattern select four students to line up at the door at transition times. You can alternate boy/girl or colour of shirts or JK/SK or something else. "These four students are lining up in a pattern. What comes next?" Complete the pattern. Next time try an AA, BB, AA, BB... pattern.

Wear an A, B, A, B... necklace. "My necklace has a pattern. Make a necklace that is the same pattern."
Next time use an AA, BB, AA... pattern.
Try:
"A necklace/cube tower has a pattern. What could it be? Show me/tell me."
"A necklace/cube tower has a pattern that has two yellow and two blue pieces. Make it."

## Canadä

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The 5 mathematical strands for the Kindergarten level

## NUMBER SENSE

 AND NUMERATIONUnderstanding Quantity and Number Relationships


QUICKCHECK
MATH

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## MEASUREMENT

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


GEOMETRY
AND SPATIAL SENSE
Identify and Describe Shapes and Figures


## PATTERNING

Identify, Extend and Reproduce Repeating Patterns


DATA MANAGEMENT AND PROBABILITY

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


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