

Grade 1 Student Resource Contents

Resource Title:

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

Activity List:

The learning outcome for each activity is listed here. This makes it easier for teachers to target specific concepts for teaching, diagnostic or formative assessment purposes.

COMPOSE AND DECOMPOSE SHAPES AND FIGURES	
Student Activities	
<p>Identify and describe common two-dimensional shapes and sort and classify them by their attributes</p> <ul style="list-style-type: none"> Match two-dimensional shapes by size1 Match triangles by size and shape2 Compare squares to circles according to size3 Relate each shape to its number of straight sides/corners4 Relate each number to the shape with the number of straight sides/corners5 Compare each shape to another shape with the same number of straight sides/corners6 	<p>Identify and describe shapes within other shapes</p> <ul style="list-style-type: none"> Compare each composition of a square to its decomposition13 Compare each decomposition of a square to its composition14 Compare each composition of a hexagon to its decomposition15 Relate each decomposition to its composition16 Compare each composition of a triangle to its decomposition17 Compare each composition of a triangle to the pictograph representation of its decomposition18
<p>Compose patterns, pictures and designs using two-dimensional shapes</p> <ul style="list-style-type: none"> Relate each pattern to its pattern extension7 Relate each pattern rule to its repeating pattern8 Relate each shape to the picture of which it is a part9 Relate each picture to its decomposition10 Relate each design composition to its decomposition11 Relate each set of shapes to its composition12 	<p>Identify and describe common three-dimensional figures and sort and classify them by their attributes</p> <ul style="list-style-type: none"> Match each object to its three-dimensional figure19 Match cubes and rectangular prisms by size20 Compare spheres and cubes by size21 Match each figure to the shapes of its faces22 Match each figure to its decomposed faces23 Match each figure to its number and shape of faces24
Teacher Section	
<p>How to Use QUICKCHECK Math and Tips for Success25</p>	<p>Learning Connection Activity Suggestions</p> <ul style="list-style-type: none"> Mathematical Process Expectations: Reflecting, Connecting and Communicating26
<p>GETTING READY TO USE QUICKCHECK You need a book and a case with six tiles.</p>	

Big Ideas:

Groups of activities are organized around key Math concepts as they relate to the expectation noted in the title.

Teacher Section:

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

**Grade 1
Student Resource Activity Page**

Activity Title:
States the targeted learning outcome: Teachers know the purpose of the activity at a glance.

Activity Extension:
Provides new information for teachers or, ideas for further development of the activity.

7 **Relate each pattern to its pattern extension.**

■ In addition to more common shapes, a trapezoid, hexagon and rhombus (diamond) are used here. Name and define these for your students.

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

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

3. Check:
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.

Grade 1 Teacher Section

Learning Connection Activity Suggestions:
These 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.

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TEACHER SECTION

LEARNING CONNECTION ACTIVITY SUGGESTIONS

Mathematical Process Expectations:
Reflecting, Connecting and Communicating

- **Identify and describe common two-dimensional shapes and sort and classify them by their attributes**
Using a geoboard, have students make a rectangle. Now, have them pull it to make it as thin as they can. "Is it still a rectangle? How do you know?" Have students do the same thing with a triangle.
- **Compose patterns, pictures and designs using two-dimensional shapes**
Have students use a two-dimensional design to create a border for a picture frame. Have students make a rectangular bookmark and fill it with a design using other shapes.
- **Identify and describe shapes within other shapes**
How many different ways can you compose a hexagon using pattern blocks? A triangle? How many different ways can you compose a triangle using pattern blocks? Using tangram pieces?

TEACHER SECTION

- **Identify and describe common three-dimensional figures and sort and classify them by their attributes**
Have students go on a figure hunt at school or at home. What objects did they find? Make a chart so students can summarize what they find.

Item	Figure	Faces	Corners
Tissue box	Rectangular prism	6	8
Ball	Sphere	0	0
Soup tin	Cylinder	2	0

Have your students discuss the following with a partner:
How are shapes and figures the same?
How are they different?
Share conclusions with the class.

Complete a **KWLW** chart about shapes and figures.
What I **K**now – What I **W**ant to know – What I **L**earned – What I still **W**onder