



### 1<sup>st</sup> Grade Unit 3:

## Sorting, Sifting, Shifting Shapes and Patterns



### **Overview:**

As a result of students' engagement within this unit, students will identify, describe, build, and compare shapes based on attributes, partition circles and rectangles into two (halves) and four (fourths/quarters) equal parts, as well as explore real-life patterns based on the attributes.

### **Learning Targets:**

In Unit 3, students will:

- Investigate, create, and make predictions about repeating patterns with a core of up to 3 elements resulting from repeating an operation, as a series of shapes, or a number string.
- Identify, describe, and create growing, shrinking, and repeating patterns based on the repeated addition or subtraction of 1s, 2s, 5s, and 10s.
- Identify common two-dimensional shapes and three-dimensional figures, sort and classify them by their attributes and build and draw shapes that possess defining attributes.
- Compose two-dimensional shapes (rectangles, squares, triangles, half-circles, and quarter-circles) and three-dimensional figures (cubes, rectangular prisms, cones, and cylinders) to create a shape formed of two or more common shapes and compose new shapes from the composite shape.
- Partition circles and rectangles into two and four equal shares.
- Estimate, measure, and record lengths of objects using non-standard units, and compare and order up to three objects using the recorded measurements. Describe the objects compared.
- Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to compare and order whole numbers.

### **Key Vocabulary:** (linked to GA DOE Interactive Glossary)

|                        |               |           |                   |
|------------------------|---------------|-----------|-------------------|
| Circle                 | Cone          | Cube      | Cylinder          |
| Defining attribute     | Fourths       | Fractions | Halves            |
| Non-defining attribute | Quadrilateral | Quarters  | Rectangular prism |
| Sphere                 | Triangle      | Whole     | Partition         |

### **Supporting Resources:**

<http://ctlslearn.cobbk12.org/>

<https://www.roomrecess.com/mobile/GeoPatterns/play.html>

<https://gavirtual.instructure.com/courses/34716#modules>

<https://apps.mathlearningcenter.org/pattern-shapes/>