Dear Fourth Grade Families,
In Unit 11, students will work on the following fourth grade Common Core standards in the Geometry (G) domain:

| $4 . G .1$ | Draw points, lines, line segments, rays, angles (right, acute, obtuse), and <br> perpendicular and parallel lines. Identify these in two-dimensional figures. |
| :---: | :--- |
| $4 . G .2$ | Classify two-dimensional figures based on the presence or absence of parallel or <br> perpendicular lines, or the presence or absence of angles of a specified size. <br> Recognize right triangles as a category, and identify right triangles. |
| $4 . G .3$ | Recognize a line of symmetry for a two-dimensional figure as a line across the <br> figure such that the figure can be folded along the line into matching parts. <br> Identify line-symmetric figures and draw lines of symmetry. |

## Unit 11 Concepts:

- Identify parallel and perpendicular lines
- Draw parallel and perpendicular lines
- Classify triangles based on lines and angles
- Classify quadrilaterals based on lines and angles
- Identify lines of symmetry
- Draw lines of symmetry


## Unit 11 Vocabulary:

- Parallel
- Perpendicular
- Triangle: equilateral, scalene, isosceles; acute, right, obtuse
- Quadrilaterals: trapezoid, parallelogram, rectangle, rhombus, square
- Symmetry



## Need a review?

Have your student login to Swun Math to access lesson support videos.

Ask questions like these to help your child become a productive mathematical thinker:

- Draw a line parallel to this one. Draw a line perpendicular to both of these parallel lines. What does perpendicular mean?
- How is a right triangle different from an acute triangle?
- Why can't an equilateral triangle have a right angle?
- Can an equilateral triangle be scalene? How do you know?
- What are all the geometric names a square could be called?
- Tell me about the angles found in a rectangle. How are they different from the angles in a nonrectangular parallelogram?
- How many lines of symmetry does a circle have? How do you know?

We encourage you to talk with your child daily about what was learned in math class.

Thank you for your support!

## Triangles classified by side:



Equilateral Triangle
Three equal sides
Three equal angles, always $60^{\circ}$


Isosceles Triangle
Two equal sides
Two equal angles

Scalene Triangle


No equal sides
No equal angles

Triangles classified by angle:


Acute Triangle All angles are less than $90^{\circ}$

Right Triangle Has a right angle (90 )

Obtuse Triangle Has an angle greater than $90^{\circ}$

| Diagram of Quadrilaterals |  |  |
| :--- | :--- | :--- |
| Quadrilateral <br> Name | Sides | Angles |

