Grade 4 – Unit 11 Geometry



Parent Letter

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 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 perpendicular lines, or the presence or absence of angles of a specified size. 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 figure such that the figure can be folded along the line into matching parts. 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

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 non-rectangular parallelogram?
- How many lines of symmetry does a circle have?
 How do you know?

Need a review?

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

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

Thank you for your support!

Classification of Triangles & Quadrilaterals



Triangles classified by side:



Equilateral Triangle

Three equal sides **Three** equal angles, always 60°



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°



Right Triangle

Has a right angle (90°)



Obtuse Triangle

Has an angle greater than 90°

Diagram of Quadrilaterals			
Quadrilateral Name	Sides	Angles	
Trapezoid	At least one pair of opposite sides parallel	• Nothing unique/special	
Isosceles Trapezoid	 Exactly one pair of opposite sides parallel One pair of opposite sides are congruent 	 Two angles are acute angles and congruent Two angles are obtuse angles and congruent 	
Parallelogram	 Both pairs of opposite sides are congruent Both pairs of opposite sides parallel 	Opposite angles are equal	
Rhombus	 All sides are congruent Both pairs of opposite sides parallel 	Opposite angles are equal	
Rectangle	 Both pairs of opposite sides are congruent Both pairs of opposite sides parallel 	• All 4 angles are right angles	
Square	All sides congruent.Opposite sides parallel	• All 4 angles are right angles	