**Chapter 6 Quadrilaterals**

**Essential Questions:**

* How can you find the sum of the measures of polygon angles?
* How can you classify quadrilaterals?
* How can you use coordinate geometry to prove relationships?

**6.1 Polygons (G- MG.1)**

* I can identify and classify different types of polygons.
* I can find solve for missing angle measures of quadrilaterals.
* I can explain why the sum of the interior angles formula works.

**6.2 Properties of Parallelograms**

* I can make conjectures about the relationships of the sides, angles, and diagonals of a parallelogram.
* I can define a parallelogram and describe the relationships that exist among the sides, angles, and diagonals of a parallelogram.
* I can use the properties of a parallelogram to solve for missing angle measures.

**6.3 Proving that Quadrilaterals are Parallelograms (G- CO.11)**

* I can prove that a quadrilateral is a parallelogram using a variety of methods.

**6.4 Rhombuses, Rectangles, and Squares (G-MG.1)**

* I can define a rhombus, rectangle, and square.
* I can describe the relationships that exist among the sides, angles, and diagonals, of a rhombus, rectangle, and square.
* I can use the properties of rhombuses, rectangles, and squares to solve for missing measures.

**6.5 Trapezoids (G-MG.1)**

* I can define a trapezoid and an isosceles trapezoid.
* I can explain the relationships that exist among sides, angles, and diagonals of a trapezoid and an isosceles trapezoid.
* I can use the properties of trapezoids and isosceles trapezoids to solve for missing measures.

**6.6 Reasoning About Special Quadrilaterals (G-MG.1 and G-CO.11)**

* I can identify special quadrilaterals based on limited information
* I can recognize and determine the similarities and differences between a square, rhombus, rectangle, trapezoid, and an isosceles trapezoid.