

Teacher / Team Name: Geometry Regular

Topic: Unit 6: Quadrilaterals (REG)

Days: 14

Subject(s): Math

Grade(s): 9th, 10th, 11th, 12th

Know:

Understand:

Do:

<p>Key Vocabulary</p> <p>Polygon Interior Angles Sum</p> <p>Properties of Parallelograms</p> <p>Special Quadrilaterals</p>	<p>Properties of quadrilaterals will be recognized, compared, and applied.</p>	<p>Find and use the sum of the measures of the interior and exterior angles of a polygon</p> <p>Recognize and apply properties of the sides, angles, and diagonals of parallelograms</p> <p>Recognize the properties of parallelograms</p> <p>Prove that sets of points form a parallelogram in the coordinate plane</p> <p>Recognize and apply properties of rectangles, rhombi, squares, trapezoids, and kites</p>
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Which standards are students learning in this unit?

MA.912.G.2.2: Determine the measures of interior and exterior angles of polygons, justifying the method used.

MA.912.G.3.1: Describe, classify, and compare relationships among quadrilaterals including the square, rectangle, rhombus, parallelogram, trapezoid, and kite.

MA.912.G.3.2: Compare and contrast special quadrilaterals on the basis of their properties.

MA.912.G.3.3: Use coordinate geometry to prove properties of congruent, regular, and similar quadrilaterals.

MA.912.G.3.4: Prove theorems involving quadrilaterals.

MA.912.G.8.2 Use a variety of problem-solving strategies, such as drawing a diagram, making a chart, guess-and-check, solving a simpler problem, writing an equation, and working backwards.

MA.912.G.8.4: Make conjectures with justifications about geometric ideas. Distinguish between information that supports a conjecture and the proof of a conjecture.