

Teacher / Team Name: Geometry Regular

Topic: Unit 12: Transformations (REG)

Days: 9

Subject(s): Math

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

Know:

Understand:

Do:

<p>Key Vocabulary</p> <p>Transformations</p>	<p>Congruence transformations will be used to make conjectures and justify properties of geometric figures.</p>	<p>Draw reflections</p> <p>Draw reflections in the coordinate plane</p> <p>Draw translations</p> <p>Draw translations in the coordinate plane</p> <p>Draw rotations</p> <p>Draw rotations in the coordinate plane</p> <p>Draw glide reflections and other compositions of isometries in the coordinate plane</p> <p>Draw compositions of reflections in parallel and intersecting lines</p> <p>Identify line and rotational symmetries in two dimensional and three dimensional figures</p> <p>Draw dilations</p> <p>Draw dilations in the coordinate plane</p>
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Which standards are students learning in this unit?

MA.912.G.2.4: Apply transformations (translations, reflections, rotations, dilations, and scale factors) to polygons. To determine congruence, similarity, and symmetry. Know that images formed by translations, reflections, and rotations are congruent to the original shape. Create and verify tessellations of the plane using polygons.

MA.912.G.2.6: Use coordinate geometry to prove properties of congruent, regular and similar polygons, and to perform transformations in the plane.

MA.912.G.8.6: Perform basic constructions using straightedge and compass, and/or drawing programs describing and justifying the procedures used. Distinguish between sketching, constructing, and drawing geometric figures.

LA.910.1.6.5:

The student will relate new vocabulary to familiar words;