Unit 2: Transformations and Symmetry	~September 18-September 30

Standards:

G.3 The student will solve problems involving symmetry and transformation. This will include

c) investigating symmetry and determining whether a figure is symmetric with respect to a line or a point; and

d) determining whether a figure has been translated, reflected, rotated, or dilated, using coordinate methods.

Topic	I can…	Resources
Translations, Reflections, Rotations and Glide Reflections	✓ determine whether a transformation is an isometry. ✓ identify the preimage and image of a transformation. ✓ graph the image of and write the rule of a translation. ✓ graph the image of and determine the axis of reflection of a reflection. ✓ identify and graph the image of and determine the angle of rotation of a rotation.	Transformations and Symmetry (Khan Academy) https://www.khanacademy.org/math/geometry/hs-geo-transformations Transformations (Math Open Ref) https://www.khanacademy.org/math/geometry/hs-geo-transformations From OPHS https://www.youtube.com/watch?v=G_4Na9ilJ1o Sample Assessment/ Review with Solutions Unit 2 Sample Assessment.pdf Unit 2 Sample Assessment Solutions.pdf
Dilations, Combined Transformations, and Symmetry	✓ identify and graph the image of and find the scale factor of a dilation. ✓ determine whether a dilation is an enlargement, or a reduction based on the scale factor. ✓ solve for a missing length using the scale factor of a dilation. ✓ determine whether a shape has reflectional symmetry, and if so, draw the lines of symmetry. ✓ determine whether a shape has rotational symmetry, and if so, determine the angle of symmetry.	