

Unit 1: Transformations, Congruence and Similarity

This unit should take 4-5 weeks to complete. Due Date: September 4, 2015

Standard with Learning Target	Which path will you choose to show mastery of your learning target?	How will you demonstrate an understanding of one or several of the following standards? You may choose the left column or the right. Make sure to mark off each objective or standard met. You must pass 3 of the lessons (per standard).	Quiz or Project Grade (You may redo your project or quiz to prove mastery after meeting with your teacher)
MGSE8.G.1 1. I am able to verify experimentally the congruence properties of rotations, reflections, and translations.	Edgenuity Small Group Instruction Independent Practice FAL PBL	Edgenuity Lesson: <i>G1</i> : U1 Rotations, Reflections and Translations Coach Book: Lesson 18 pages 104-109 Carnegie Learning Book Volume 1: Lessons 1.1, 1.2, 1.3 pg 3-28 Math in Focus: Lessons 8.1, 8.2, 8.3 Frameworks Task: Intro to Reflections and Rotations PBL: Architect For a Day	Edgenuity: _____ Coach Book: _____ Carnegie Book: _____ Math in Focus: _____ Frameworks Task: _____ PBL: _____
MGSE8.G.2 2. I am able to understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations.	Edgenuity Small Group Instruction Independent Practice FAL PBL	Edgenuity Lesson: <i>G2</i> : U1 Rotations, Reflections and Translations Coach Book: Lesson 19 pages 110-113 Carnegie Learning Book Volume 1: Lessons 2.1, 2.2, 2.3 pg 33-66 Math in Focus: Lessons 9.1, 9.2, 9.3 Frameworks Task: Dilations in the Coordinate Plane FAL: Representing and Combining Transformations PBL: Architect For a Day or Culminating Task	Edgenuity: _____ Coach Book: _____ Carnegie Book: _____ Math in Focus: _____ Frameworks Task: _____ FAL: _____ PBL: _____
MGSE8.G.3 3. I am able to describe the effect of dilations, translations, rotations and reflections on two-dimensional figures using coordinates.	Edgenuity Small Group Instruction Independent Practice FAL PBL	Edgenuity Lesson: <i>G3&4</i> : U1 Rotations, Reflections and Translations Coach Book: Lesson 20 pages 114-119 Math in Focus: Lessons 8.4, 8.5, 9.3 Frameworks Task (Choose 1): Changing Shapes, Coordinating Reflections/Rotations/Translations, Dilations in the Coordinate Plane PBL: Architect For a Day	Edgenuity: _____ Coach Book: _____ Math in Focus: _____ Frameworks Task: _____ PBL: _____

<p>MGSE8.G.4 4. I am able to understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations.</p>	<p>Edgenuity Small Group Instruction Independent Practice FAL PBL</p>	<p>Edgenuity Lesson: G3&4: U1 Rotations, Reflections and Translations Coach Book: Lesson 22 pages 124-127 Carnegie Learning Book Volume 1: Lessons 3.1, 3. 2, 3.3 pages 83-104 Math in Focus: Lessons 9.2 and 9.3 Frameworks Task (Choose 1): Changing Shapes, Dilations in the Coordinate Plane, Similar Triangles; Playing with Dilations PBL: Architect For a Day or Culminating Task</p>	<p>Edgenuity: _____ Coach Book: _____ Carnegie Book: _____ Math in Focus: _____ Frameworks Task: _____ PBL: _____</p>
<p>MGSE8.G.5 5. I am able to use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.</p>	<p>Edgenuity Small Group Instruction Independent Practice FAL PBL</p>	<p>Edgenuity Lesson: G5: U1 Parallel Lines are Cut by a Transversal Coach Book: Lesson 23 & 25 pages 128-135 Carnegie Learning Book Volume 1: Lessons 4.1, 4.2, 4.3 pages 121-160 Math in Focus: Lesson 9.2 FAL (Choose 1): Lunch Lines, Similar Triangles, Tessellating Triangles, Transversals Tape and Stickies, Window Pain, For the Win PBL: Architect For a Day or Culminating Task</p>	<p>Edgenuity: _____ Coach Book: _____ Carnegie Book: _____ Math in Focus: _____ Frameworks Task: _____ FAL: _____ PBL: _____</p>

Unit 1 Common Formative Assessment (CFA) will be September 5th. Please make sure all assignments are completed by this date. You may finish earlier and move on to the next unit at your leisure any time prior to this date. Any assignments not completed by this date will count as zeros because Unit 2 will need to begin the following week in order to complete all necessary material prior to year-end testing. Corrections can be made throughout the year (after meeting with the teacher) as students feel more comfortable with each standard.