

Unit Plan by Prioritized Standards

Content Area	Math
Grade/Course	8th grade Math
Unit of Study	Transformations, Congruence, and Similarity - Unit 1
Duration of Unit	4 weeks/ 16 days

Insert priority standards below (include code). **CIRCLE or Highlight** the **SKILLS** that students need to be able to do and **UNDERLINE** the **CONCEPTS** that students need to know. **(address “supporting” standards in daily lesson plans)**

MGSE8.G.3 Describe the effects of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.

Skills (what must be able to do)	Concepts (what students need to know)	DOK Level / Bloom’s
Describe	Effects of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates	2/3

Step 5: Determine BIG Ideas (enduring understandings students will remember long after the unit of study)	Step 6: Write Essential Questions (these guide instruction and assessment for all tasks. The big ideas are answers to the essential questions)
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<p>Geometric objects (such as shapes, lines, angles, figures, and planes) remain congruent through translations, reflections, and rotations; is geometric objects are proportional when dilated then geometric objects are similar.</p> <p>The sum of the angle in a triangle is the angle formed by a straight line and that various configurations of lines give rise to similar triangles because of the angles created when a transversal cuts parallel lines.</p>	<p>How can geometry better describe objects? I can explain how rotations, reflections, and translations can be used to prove that two figures are congruent. I can explain how a dilation can be used to probe that two figures are similar. I can describe verbally and algebraically the changes of a figure after a transformation or a series of transformations.</p> <p>How would the angle measure compare between a straight line and a straight angle? I can make conjectures regarding the relationships and measurements of the angles created when two parallel lines are cut by a transversal.</p> <p>How can I construct a straight line from the interior angles from a triangle? I can informally prove that the sum of any triangle’s interior angles will have the same measure as a straight angle.</p>
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Essential Unit Vocabulary

Transformation, translation, reflection, rotation, parallel line(s), congruent, dilation, similar, interior angle, exterior angles, transversal, alternate interior angles, alternate exterior angles, corresponding angles, vertical angles, supplementary angles

Next step, create assessments and engaging learning experiences

