Grade 8 Standards Parent Resource

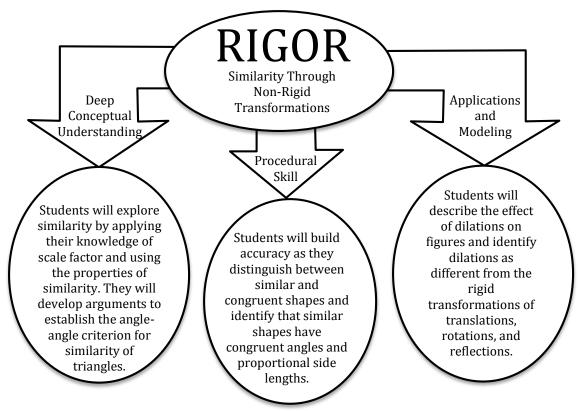
Unit #7: Transformations and Geometric Measurement

Unit 7 includes 3 topics of study, listed below. This resource is for Topic 2.

Topic # 1	Topic # 2	Topic # 3
Congruence Through Rigid	Similarity Through Non-Rigid	Volumes of Cones, Cylinders, and
Transformations	Transformations	Spheres

	Learning Goals by <u>Common Core State Standard</u>
Topic	Students will be able to
Similarity Through Non-Rigid Transformations	 Describe the effect of <u>dilations</u>, translations, rotations, and reflections on two-dimensional figures using coordinates. 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; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them. 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 <u>angle-angle</u> criterion for similarity of triangles. For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of transversals why this is so. Instructional videos in the hyperlinks above are meant to support C2.0 content, but may use vocabulary or strategies not emphasized by MCPS.

The Common Core State Standards require a balance of three fundamental components that result in rigorous mathematics acquisition: deep conceptual understanding, procedural skill, and mathematical applications and modeling.



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Unit #7: Transformations and Geometric Measurement Topic #2: Similarity Through Non-Rigid Transformations

