8ᵗʰ Grade Module 3 – Similarity

	4 - Mastery	3 - Proficient	2 - Basic	1 - Below Basic	0 - No Evidence
Topic A (8.G.3)	Meets **all** of the criteria in a Level 3 **Completes tasks including synthesis and evaluation**	**Describe** dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.	**Demonstrate** dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.	**Identify** dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.	**Shows no evidence of proficiency** Little evidence of reasoning or application to solve the problem.
Topic B (8.G.4, 8.G.5)	Meets **all** of the criteria in a Level 3 **Completes tasks including synthesis and evaluation**	Given two similar figures, **describe** a sequence of transformations that exhibits the similarity between them **Explain** whether 2 figures are similar to another by describing a sequence of transformations Explain and solve problems using angle sum of triangles **and** angle-angle criterion for similarity of triangles	Given two similar figures, **demonstrate** a sequence of transformations that exhibits the similarity between them **Determine** if 2 figures are similar to another by using a sequence of transformations Explain and solve problems using angle sum of triangles **or** angle-angle criterion for similarity of triangles	Given two similar figures, **identify** the dilation that exhibits the similarity between them **Identify** if 2 figures are similar to another by using dilation	**Shows no evidence of proficiency** Little evidence of reasoning or application to solve the problem.

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

8.G.A.4 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.

8.G.A.5 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.