

Unit 1 Playlist 1 - Transformations, Similarity, and Congruence

Graduation Competency #5 The student proves, understands, and models geometric concepts using appropriate tools, theorems and constructions to solve problems and apply logical reasoning.

GA Standard of Excellence: MGSE8.G.1 ; MGSE8.G.2 ; MGSE8.G.3; MGSE8.G.4

Learning Targets

- | | | |
|--|--|---|
| <input type="checkbox"/> I can show triangles are similar using various strategies. | <input type="checkbox"/> I can use the properties of translations, rotations, and reflections on line segments, angles, parallel lines or geometric figures. | <input type="checkbox"/> I can determine the new coordinate of a figure given a dilation, translation, rotation, or reflection. |
| <input type="checkbox"/> I can show and/or explain how the angle-sum and exterior-angle theorems of a triangle are true. | <input type="checkbox"/> I can show and explain two figures are congruent using transformations. (explaining the series of transformations used) | <input type="checkbox"/> I can describe transformations and/or dilations that produce similar figures |
| | | <input type="checkbox"/> I can explain similarity of figures in terms of dilation and/or transformation. |

Learning Videos

You should take notes in your notebook while you watch the videos

Practice for Mastery

Complete as many as you choose to support progress toward the learning targets.

Evidence of Mastery

You ***MUST*** complete and submit for a grade.

Similarity

- ☐ [What are similar figures](#)
- ☐ [How to determine if similar figures](#)
- ☐ [How do you find missing measures with proportions](#)
- ☐ [How do you find scale factor](#)

Transformations

- ☐ [What is an image](#)
- ☐ [Describing Rigid Motions](#)
- ☐ [What is a transformation](#)
- ☐ [Reflecting a Point Across the Axis](#)
- ☐ [What is a reflection](#)
- ☐ [What is a translation](#)
- ☐ [Describe Translations](#)
- ☐ [What is a rotation](#)
- ☐ [Dilation](#)

DOK 1 & 2

- Small Group
- Stations (Transformations, Similarity, Congruence)
- IXL: P.2 – P.8, Q.2 – Q.4 (Transformations)
- IXL: Q.1, Q.5 (Similarity)
- Odysseyware (Transformations/Similarity)
- Prodigy
- Graphic Organizer
- Practice Worksheets with Keys
- Explore Interactive Activity and note observations in your notebook
 - [REFLECTIONS](#)
 - [TRANSLATIONS](#)
 - [ROTATIONS](#)
 - [DILATIONS](#)

Unit Assessment Date: _____

DOK 3 - Choose 1 Task below:

- Dilations in the Coordinate Plane Task
- Escher Tessellation Task

DOK 4 – Cannot be completed until Playlist 1 & 2 are finished.

- Design your own Logo Task