Rotation 1: Scaled Copies

Content Area: **Mathematics**
Course(s):
Time Period: **Default**
Length: **Rotation 1**
Status: **Published**

Summary

- Describe how scaling affects lengths, angles, and areas in scaled copies
- Use scale factors to create and compare scaled copies.

Standards

MA.7.G.A.1	Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.
MA.7.G.B.6	Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

Materials

Desmos Grade 7 Unit 1

Lesson 1 : **Scaling Machines**

- I can tell whether or not a figues is a scaled copy of another figure.
- I can describe some characteristics of a scaled copy.

Lesson 2: Scaling Robots

- I can explain what *scale factor* is.
- I can state the relationship between lengths in an original figure and in a scaled copy.

Lesson 3: Make It Scale

- I can draw a scaled copy of a figure using a given scale factor.

Lesson 4: Scale Factor Challenges

- I can describe the effect on a scaled copy when I use a scale factor that is greater than 1, between 0 and 1, or equal to 1.
- I can explain how the scale factor that takes one figue to another figure relates to the scale factor that takes the second figure back to the first.

Lesson 5: Tiles

- I can describe how scale factor impacts the area of a scaled copy.
- I can calculate the area of a scaled copy.

Assessment

- Observation
- Cool Downs
- Quizzes