# **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

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- Observation
- Cool Downs
- Quizzes