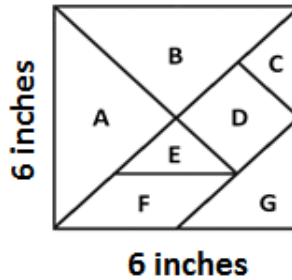


# MAKER JOURNAL

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**6<sup>th</sup> grade: Define ---Decompose a polygon into other polygons & find their areas!**
**Lesson 2**

Use the space below to show how you can decompose tangram pieces to make other polygons. Identify the polygons you create and their areas:

Example:

I can decompose square D by dividing it along a diagonal to create 2 right triangles that are each half the area of square D. The area of square D is  $\frac{1}{8}$ <sup>th</sup> the area of the whole tangram; then D has an area of  $(\frac{1}{8})(36) = 4.5$ ; so each triangle made from square D has an area of  $(\frac{1}{2})(4.5) = 2.25$  sq. in.

