Geometry

Transformations Vocabulary

Name: _____

Exploring Angles & Similarity

Option: ____

Exploring Symmetry

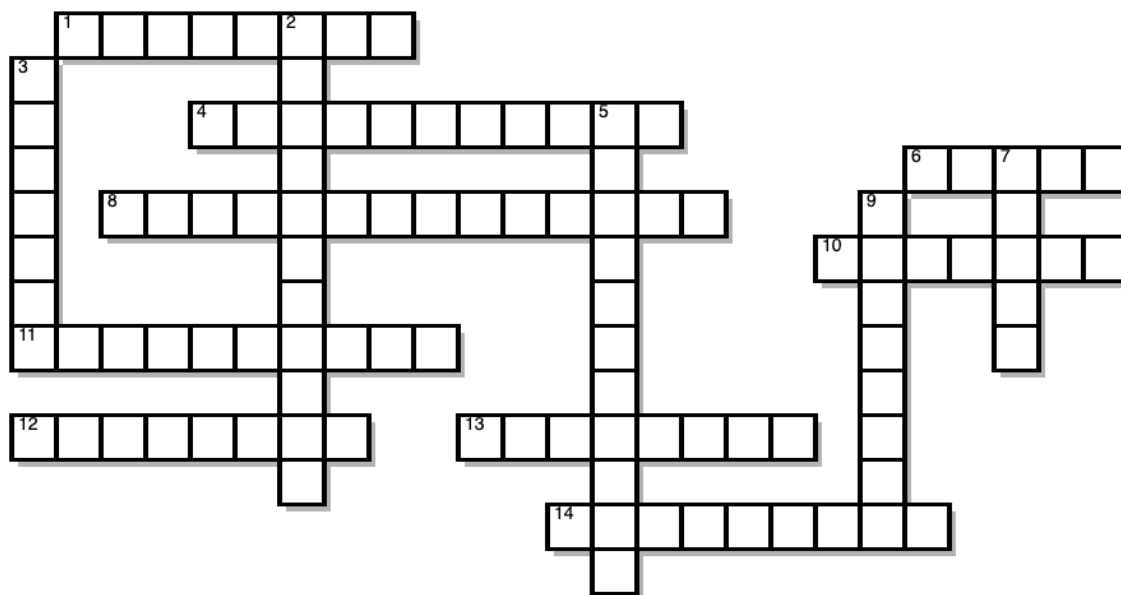**Option:** ____

Exploring Dilation

Option: ____

Exploring Congruence

Option: ____

Transformation Vocabulary

8th Grade Geometry

ACROSS

1   When a shape can be divided into parts that are exactly the same, either by flipping (reflectional symmetry) or turning (rotational symmetry).

4   A number that describes how much bigger or smaller a dilated shape will be. For example, if this number were 2, the dilated shape would be twice as large as the original.

6   A two dimensional grid that extends forever in two independent directions (most often represented as left/right and up/down on a piece of paper). A plane can have any orientation in three dimensional space.

8   A process that changes a shape's size, position, or direction. Examples include moving, flipping, rotating, and resizing a shape.

10 Any closed, two dimensional figure with three or more sides.

11 A transformation that flips a shape over a line to create a mirror image.

12 Making a shape bigger or smaller while keeping its angles the same.

13 The measurement of how far apart two points are.

14 When two shapes are exactly the same in size and shape, though they may be turned or flipped differently.

DOWN

2   Moving a shape from one place to another without rotating or flipping it.

3   When two shapes are the same shape, but they might be turned or flipped differently. They don't have to be the same size.

5   A description of which direction an object is facing. It tells you how the object is turned, while location tells you where it is.

7   A way to measure how much one line turns away from another line. Axis / A fixed line in space around which an object can rotate.

9   A transformation where a shape is turned around a fixed point or axis.

WORD BANK: ANGLE, CONGRUENT, DILATION, DISTANCE, ORIENTATION, PLANE, POLYGON, REFLECTION, ROTATION, SCALEFACTOR, SIMILAR, SYMMETRY, TRANSFORMATION, TRANSLATION