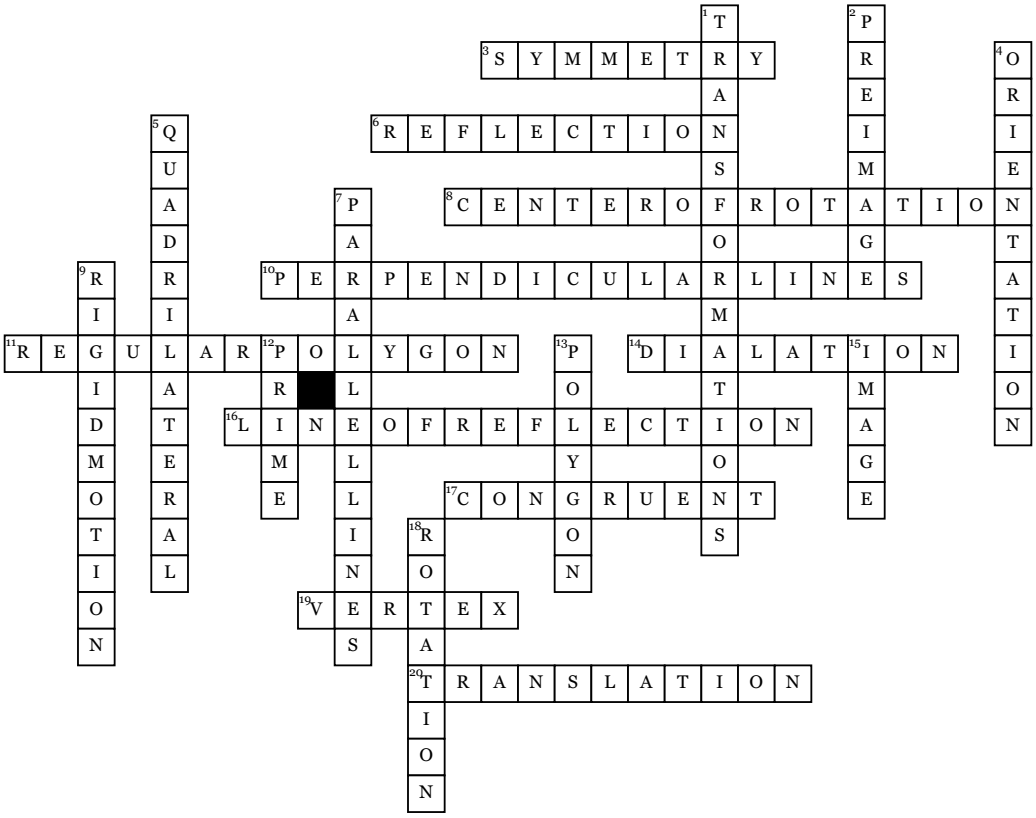
Name: _____ Date: _____ Period: _____

Unit 6: Transformations & Symmetry



Across

3. one shape becomes exactly like another when you move it in some way: turn, flip or slide.

6. a transformation that "flips" a figure over a mirror or reflection line.

8. a fixed point around which shapes move in a circular motion to a new position.

10. two lines that intersect to form a right angle.

11. when all angles are equal and all sides are equal (otherwise it is "irregular").

14. a transformation that stretches or shrinks a figure to create a similar figure.

16. a line that a figure is flipped across to create a mirror image of the original figure.

17. having exactly the same size and shape.

19. a point where two or more straight lines meet.

20. a transformation that "slides" each point of a figure the same distance in the same direction.

Down

1. the act of changing the position of a shape on a coordinate plane.

2. the original image before transformation.

4. the way an object is 'pointing' or angled.

5. plane figure having four sides and four angles.

7. lines in the same plane that do not intersect.

9. a transformation in the plane that preserves distance and angle measure.

12. a symbol used to distinguish one quantity x' ("x prime") from another x. Prime marks are most commonly used to denote transformed coordinates.

13. a plane figure with at least three straight sides and angles, and typically five or more.

15. a figure resulting from a transformation.

18. a transformation where you "turn" a figure about a given point.

Word Bank

translation	parallel lines	orientation	prime	dialation
rotation	polygon	image	pre-image	congruent
center of rotation	quadrilateral	reflection	perpendicular lines	symmetry
vertex	regular polygon	line of reflection	rigid motion	transformations