**CCM8 Unit 6: Geometric Properties Vocabulary**

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| Adjacent Angles | Two angles that have a common side and a common vertex |
| Alternate Exterior Angles | Nonadjacent exterior angles that lie on opposite sides of the transversal |
| Alternate Interior Angles | Nonadjacent interior angles that lie on opposite sides of the transversal |
| Angle Angle Criterion | If two angles of one triangle are congruent to two angles of another triangle, then the triangles are similar |
| Angle Sum Theorem | The sum of the interior angles of any triangle is equal to 180° |
| Angle-Angle Similarity Postulate | If two angles of one triangle are congruent to two angles of another triangle, then the triangles are similar |
| Complimentary Angles | A pair of angles whose sum is 90 |
| Congruent | Two polygons are congruent if they are exactly the same – same shape and same size. In congruent figures, corresponding side lengths are equal and corresponding angles are equal. |
| Congruent Angles | Angles with the same measure |
| Corresponding Angles | Any pair of angles that have the same relative position at each intersection where a straight line crosses two others |
| Corresponding Sides | Matching sides of two or more polygons |
| Deductive Reasoning | Process to reach a conclusion using multiple forms of information |
| Exterior Angle | An angle formed by a side and the extension of an adjacent side |
| Interior Angle | An angle inside a polygon |
| Nonadjacent Angles | Two angles that do not have a common side or a common vertex (not touching) |
| Parallel Lines | Lines in the same plane that never intersect |
| Remote Interior Angles | The remote interior angles are the two angles that are inside the triangle and opposite from the exterior angle |
| Same Side Interior Angles | Lie on the same side of the transversal between the other two lines |
| Scale Factor | The ratio between two corresponding side lengths |
| Similar Polygons | Two polygons are similar if their corresponding angles are equal and their corresponding side lengths proportional. Often times, similar figures are said to have the “same shape, but not necessarily the same size.” |
| Similarity | When shapes are the same but different sizes |
| Supplementary Angles | A pair of angles whose sum is 180° |
| Transversal | A line intersecting two or more lines |
| Triangle | A closed plane figure formed by connecting the endpoints of three line segments endpoint to endpoint |
| Triangle Exterior Angle Theorem | The measure of each exterior angle of a triangle equals the sum of the measures of its two remote interior angles |
| Triangle Sum Theorem | The sum of the interior angles of any triangle is equal to 180° |
| Vertical Angles | Pairs of opposite angles formed by intersecting lines |