I Can…

Congruence
- find the midpoint of a segment.
- find the distance between two points in the coordinate plane.
- connect reasoning in algebra and geometry.
- prove and apply theorems about angles.
- relate parallel and perpendicular lines.
- prove two triangles congruent by the five congruence triangle statements
- use and apply CPCTC.
- use and apply properties of isosceles triangles.
- redraw and prove congruent overlapping triangles.
- prove two triangles congruent using other congruent triangles.
- use properties of midsegments to solve problems.
- recognize and differentiate between angle bisectors, perpendicular bisectors, medians, and altitudes.
- use properties of perpendicular bisectors and angle bisectors in real life situation.
- use inequalities involving angles & sides of triangles.
- apply inequalities in two triangles.
- find and use the sum of the measures of the interior angles of a polygon.
- find and use the sum of the exterior angles of a polygon.
- determine whether a quadrilateral is a parallelogram.
- define and classify special types of parallelograms.
- verify and use properties of trapezoids and kites.
- classify polygons in the coordinate plane.
- name coordinates of special figures by using their properties.
- prove theorems using figures in the coordinate plane.

Similarity, Right Triangles, and Trigonometry
- write ratios and solve proportions.
- identify and apply similar polygons.
- use AA, SAS, and SSS similarity statements.
- use similarity to find indirect measurements.
- use the Side-Splitter and Triangle-Angle-Bisector Theorems.
- use the properties of 45-45-90 and 30-60-90 triangles.
- use sine, cosine, and tangent ratios to determine missing values in a triangle.
- use angles of elevation and depression to solve problems.
- apply the Law of Sines to find the missing angles/sides in right & non-right triangles.