

**Math – Geometry**  
**Hartley-Melvin-Sanborn CSD**  
**Grade Level/Course Benchmarks**

By the end of Geometry, students will:

- G.1 Prove triangles congruent using ASA, SSS, AAS, SAS, and HL. (Standards 3 and 6)
- G.2 Determine lateral and total area and volume of solid figures. (Standards 3, 4, and 6)
- G.3 Use properties of similar polygons to find the length of a side. (Standards 1, 4 and 6)
- G.4 Compute areas of rectangles, parallelograms, triangles, trapezoids, and regular polygons. (Standards 1, 3 and 4)
- G.5 Compute circumference areas are the lengths, sectors, and segments of circles. (Standards 1, 3, 4, and 6)
- G.6 Apply theorems relating angle measure and arc measure to solve problems. (Standards 3, 4, 5 and 6)
- G.7 Solve problems involving lengths of chords, secant segments, and tangent segments. (Standards 3, 4 and 5)
- G.8 Identify properties of rectangles, rhombuses, squares, trapezoids, and parallelogram. (Standards 3, 4 and 6)
- G.9 Determine the sum of the interior and exterior angles of any convex polygon. (Standards 3, 4 and 6)
- G.10 Apply midpoint theorem, angle-bisector theorem, vertical angle theorem, and perpendicular lines theorem to problem solving. (Standards 3, 4 and 6)
- G.11 Apply definitions of complementary, supplementary, vertical, and adjacent angles to problem solving. (Standards 3, 4 and 6)

Revised: November, 2007