

Math 6: Geometry – 2D Figures

Unit Overview – 2 Dimensional Figures (G)

Students will build on their work with area in elementary school by reasoning about relationships among shapes to determine area. They find areas of polygons by decomposing these shapes, rearranging and removing pieces, and relating the shapes to rectangles. Using these methods, students discuss, develop, and justify formulas for areas of triangles and parallelograms. They prepare for work on scale drawings and constructions in Grade 7 by drawing polygons in the coordinate plane.

6.G.A.1	Find the area of right triangles, other triangles, special quadrilaterals and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.
6.G.A.3	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.