

Math 7 Geometry: Two-Dimensional Figures 2014-15

Unit Overview

In this unit students will work solely with 2-dimensional figures. Specifically, they will review finding the area of polygons before applying that knowledge to composite figures. Students will develop basic understandings of the parts of a circle, and compute the circumference and area. They will draw geometric shapes given specific conditions - angle and/or side measurements. They will use facts about angle relationships to find unknown angle measurements in a figure.

Prep for 7.G.B.6	Prep for Area of Polygons	
7.G.A.2	Angles in Polygons	Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.
7.G.B.4	Circumference and Area of Circles	Know the formulas for the area and circumference of a circle and use them to solve problems. Give an informal derivation of the relationship between the circumference and area of a circle.
7.G.B.5	Angle Relationships	Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.
7.G.B.6	Area of Composite Figures	Solve real-world and mathematical problems involving area, volume and surface area of two-dimensional and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes and right prisms.