Curriculum: Katherine Baker

Learning-Focused Toolbox

Date: July 24, 2011 ET

Teacher / Team Name: Geometry Honors

Topic: Unit 10: Areas of Polygons and Circles (HON)

Days: 12

Subject(s): Math

Grade(s): 8th, 9th, 10th, 11th, 12th

Know:	Understand:	Do:
Key Vocabulary Area Formulas	Formulas for area of figures will be derived and applied to solve problems.	Find the perimeter and areas of parallelograms, triangles, trapezoids, rhombi, kites, circles, and sectors of circles Find the areas of regular polygons and composite figures Find the area of similar figures by using scale factors Find the scale factors or missing measures given the area of similar figures

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Which standards are students learning in this unit?

MA.912.G.2.1:

Identify and describe convex, concave, regular, and irregular polygons.

MA.912.G.2.5:
Explain the derivation and apply formulas for perimeter and area of polygons (triangles, quadrilaterals, pentagons, etc.).
Moderate
MA.912.G.2.6:
Use coordinate geometry to prove properties of congruent, regular and similar polygons, and to perform transformations in the plane.
High
MA.912.G.2.7:
Determine how changes in dimensions affect the perimeter and area of common geometric figures.
Moderate