Curriculum: Katherine Baker

Learning-Focused Toolbox

Date: July 19, 2011 ET

Teacher / Team Name: Geometry Regular

Topic: Unit 10: Measuring Length and Area (REG)

Days: 12

Subject(s): Math

Grade(s): 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.2.5: Explain the derivation and apply formulas for perimeter and area of polygons (triangles, quadrilaterals, pentagons, etc.).

MA.912.G.2.7: Determine how changes in dimensions affect the perimeter and area of common geometric figures.

MA.912.G.4.4: Use properties of congruent and similar triangles to solve problems involving lengths and areas.

MA.912.G.6.2: Define and identify: circumference, radius, diameter, arc, arc length, chord, secant, tangent and concentric circles .

MA.912.G.6.5: Solve real-world problem s using measures of circumference, arc length, and areas of circles and sectors.

MA.912.G.8.1: Analyze the structure of Euclidean Geometry as an axiomatic system. Distinguish between undefined terms, definitions, postulates, and theorems.

MA.912.G.8.2: Use a variety of problem-solving strategies, such as drawing a diagram, making a chart, guess-and-check, solving a simpler problem, writing an equation, and working backwards.