Curriculum: Katherine Baker

Learning-Focused Toolbox

Date: July 19, 2011 ET

Teacher / Team Name: Geometry Regular

Topic: Unit 7: Similarity (REG)

Days: 12

Subject(s): Math

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

Key Learning: **Similar figures and their scale factors will be used to write proportions to solve problems.**

Unit Essential Question(s): **How are similar figures and their scale factors used to write proportions to solve problems?**

Concept: **Ratios and Proportion**	**Concept:** **Similar Figures**
Lesson Essential Question(s): How do you use ratios to solve problems involving proportions and similar figures? (A) How do you use proportional lengths within triangles to find segment measures? (A) How do you interpret scale models and use scale factors to solve problems? (A)	**Lesson Essential Question(s):** How do you solve problems using the properties of similar polygons? (A) How do you identify similar triangles using AA, SSS, SAS similarity? (A) How can you recognize and use proportional relationships of simliar triangles? (A) How do you verify similarity after a similarity transformation? (A)
Vocabulary: ratio, proportion, cross product, midsegment of a triangle, scale, scale drawing	**Vocabulary:** similar polygons, similar ratio, scale factor, dialation, similarity transformation

Additional Information:
Sections: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7

Attached Document(s):

Vocab Report for Topic: Unit 7: Similarity (REG)

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Concept: Ratios and Proportion

ratio -
proportion -
cross product -
midsegment of a triangle -
scale -
scale drawing -

Concept: Similar Figures

similar polygons -
similar ratio -
scale factor -
dialation -
similarity transformation -