


Geometry Curriculum Bundle #5

Title		Suggested Dates
Triangle Similarity & Trig Ratios		November 16 - December 4 (12 days)

Big Idea/Enduring Understanding	Guiding Questions
Similarity and trigonometric relationships between geometric figures have many useful applications.	<ol style="list-style-type: none"> 1. What is a proportion? 2. What are the two things needed to determine similarity? 3. How do you use the basic trig functions to find missing parts of triangles?

The resources included here provide teaching examples and/or meaningful learning experiences to address the District Curriculum. In order to address the TEKS to the proper depth and complexity, teachers are encouraged to use resources to the degree that they are congruent with the TEKS and research-based best practices. Teaching using only the suggested resources does not guarantee student mastery of all standards. Teachers must use professional judgment to select among these and/or other resources to teach the District Curriculum.

Knowledge & Skills with Student Expectations	District Specificity/Examples	Suggested Resources (See note above)	
<p>G.11 Similarity and the Geometry of Shape. The student applies the concepts of similarity to justify properties of figures and solve problems</p> <p>G.11C The student develops, applies, and justifies triangle similarity relationships, such as right triangle ratios, trigonometric ratios, and Pythagorean triples using a variety of methods.</p>	<ul style="list-style-type: none"> • Determine appropriate trigonometric ratio to solve a right triangle. • Special Right Triangles and Trigonometry. 	<p>Discovering: 9.1 – 9.3, 12.1, 12.2</p> <p>Holt: 8.2, 8.3, 8.4</p>	<p>Geometry LTF: p. 46, 186, 190</p> <p>A&M: Ch 7 (Fall)</p>
<p>G.11 Similarity and the Geometry of Shape. The student applies the concepts of similarity to justify properties of figures and solve problems</p> <p>G.11B The student uses ratios to solve problems involving similar figures.</p>	<ul style="list-style-type: none"> • Compare area, perimeter, surface area, and volume of similar figures • Find missing dimensions • Apply to real world situations 	<p>Holt: Ch. 7</p>	<p>A&M: Ch. 8 (Fall)</p>