


Geometry Curriculum Bundle #4

Title		Suggested Dates
Triangles Continued		October 26 - November 13 (14 days)

Big Idea/Enduring Understanding	Guiding Questions
Congruent triangles are the foundation of many geometric proofs.	<ol style="list-style-type: none"> 1. What are the points of concurrency of the special segments of a triangle? 2. What are the justifications for triangle congruency?

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.7 Dimensionality and the Geometry of Location. The student understands that coordinate systems provide convenient and efficient ways of representing geometric figures and uses them accordingly.</p> <p>G.7B The student uses slopes and equations of lines to investigate geometric relationships, including parallel lines, perpendicular lines, and special segments of triangles and other polygons.</p>	<ul style="list-style-type: none"> • Special segments of triangles, such as midsegments, angle bisectors, perpendicular bisectors, medians, and altitudes, centroid, circumcenter, incenter, and orthocenter 	<p>Discovering: 3.7, 3.8, 5.4 (Mid-segment of Triangle only)</p> <p>Discovering Geometry with Geometer's Sketchpad Demonstrations: Ch. 3.7</p> <p>Holt: Ch. 5 5.1 – 5.4</p>	<p>Dana Center: Chapter 1 – Coordinate Geometry Chapter 7 – Similarity</p> <p>From mathopenref.com concurrency</p>
<p>G.10 Congruence and the Geometry of Size. The student applies the concept of congruence to justify properties of figures and solve problems.</p> <p>G.10B The student justifies and applies triangle congruence relationships.</p> <p>Teacher Note: No formal proofs yet</p>	<ul style="list-style-type: none"> • Justify and use SAS, SSS, ASA, AAS, HL • Use pictures and drawings with appropriate congruence markings 	<p>Discovering: 3.6, 4.4 – 4.8 (HL is not mentioned in Discovery, Supplement from Holt book)</p> <p>Holt: 4.3 – 4.7</p>	<p>Dana Center: Ch. 6 - Congruence</p> <p>A&M: Ch 9 (Spring) – non proofs</p> <p>From mathopenref.com Congruent TRI</p>