

Geometry Curriculum Bundle #7

Title	Suggested Dates
Quadrilaterals	January 5 – January 29 (18 days)



Big Idea/Enduring Understanding	Guiding Questions
The properties of parallelograms make figures useful in mechanics and construction.	<ol style="list-style-type: none"> 1. What are the properties of the special quadrilaterals? 2. How are the special quadrilaterals related? How are they different?

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.7C The student derives and uses formulas involving length, slope, and midpoint.</p>	<ul style="list-style-type: none"> • Use the application of the formulas to prove properties of figures such as rhombi, squares, rectangles, etc... 	<p>Discovering: 1.5 (Quadrilaterals only), 5.3, 5.5 – 5.7, 5.4 (Trapezoid Mid-segment Only)</p>	<p>A&M: Ch 6 (Fall)</p> <p>From mathopenref.com quadrilaterals</p>
<p>G.3 Geometric Structure. The student applies logical reasoning to justify and prove mathematical statements.</p> <p>G.3B The student constructs and justifies statements about geometric figures and their properties.</p>	<ul style="list-style-type: none"> • Use coordinate geometry to justify properties 	<p>Holt: 1.6, 4.7</p>	<p>Dana Center Ch. 2 - Proofs</p> <p>A&M: Ch 9 (Spring)</p>
<p>G.9 Congruence and the Geometry of Size. The student analyzes properties and describes relationships in geometric figures.</p> <p>G.9B The student formulates and tests conjectures about the properties and attributes of polygons and their component parts based on explorations and concrete models.</p>	<ul style="list-style-type: none"> • Use the properties of quadrilaterals, triangles, and regular polygons 	<p>Discovering: 4.4-4.6, Ch. 5</p> <p>Holt: Ch. 6</p>	<p>Dana Center: Ch. 6 - Congruence</p> <p>A&M: Ch 6 (Fall)</p> <p>From mathopenref.com polygons</p>