



Recommended Advanced Geometry Curriculum Framework

Content: MATHEMATICS – ADVANCED GEOMETRY

Topic: Unit 4 Lines in a plane 5 days

Content (What do your students need to KNOW?)	Demonstrators (What do your students need to be able to DO?)	Assessment (How will you assess what your students ALREADY KNOW, and assess WHAT THEY'VE LEARNED?)	Activities (HOW will you teach it?)	Resources (What MATERIALS will you need?)	Differentiation (How will you reach the DIVERSITY of learners?)	Literacy Connection (How will you use READING and WRITING with this material?)
<p>MA-H 2.2.7 Students will apply formulas for the slope of a line, distance between two points, and midpoint of a segment to solve problems.</p> <p>MA-H 2.3.2 Students will apply algebra to solve problems involving geometric figures in a coordinate plane.</p> <p>MA-H 2.1.4 Students will describe properties of, define, give examples of, and apply to both real-world and mathematical situations ratio measures including slope and rate.</p> <p>MA-H 1.1.2 Students will apply real numbers to both real-world and mathematical situations</p>	<p>Academic Expectations 1.5 - 1.9 Students use mathematical ideas and procedures to communicate, reason, and solve problems. 2.10 Students understand measurement concepts and use measurements appropriately and accurately. 2.7 Students understand number concepts and use numbers appropriately and accurately.</p> <p>Program of Studies M-H-G-18 Students will convert from one measure to another within the same system. Program of Studies M-H-G-20 Students will connect the concepts of slope, distance, and midpoint to coordinate geometry. Program of Studies M-H-A-17 Students will relate the patterns in geometric sequences to exponential equations (e.g., squared, cubed, nth power).</p>			<p>Page 204 #17</p>		

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