


Planned Course: Geometry		Course Number: 302/303		Department: Mathematics	
Unit:		Grade Level:		Date Approved: 7/15/2008	
Estimated Time:		Level/Track:			
PA Academic Standards	Core Concepts (in question format) • Skills/Knowledge	Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)	Assessments (include types and topics)		

<p>2.1.11.A Use operations (e.g., opposite, reciprocal, absolute value, raising to a power, finding roots, finding logarithms).</p> <p>2.8.11.E Use equations to represent curves (e.g., lines, circles, ellipses, parabolas, hyperbolas).</p> <p>2.8.11.L Write the equation of a line when given the graph of the line, two points on the line, or the slope of the line and a point on the line.</p> <p>2.4.11.A Use direct proofs, indirect proofs or proof by contradiction to validate conjectures.</p>	<p>▶ 4. What are the properties of parallel lines?</p> <p>▶ 4A. The students will identify and be able to use the properties of parallel lines.</p> <p>▶ 4B. The students will be able to prove the two lines are parallel, including the use of coordinate geometry.</p> <p>▶ 4C. The students will continue to expand their knowledge of the structure of geometry by defining terms, developing postulates and theorems, and proving theorems pertaining to lines.</p>	<p>▶ Overhead transparencies</p> <p>▶ Chalkboard Examples</p> <p>▶ PowerPoint Examples</p> <p>▶ Textbook Exercises</p> <p>▶ Paper Folding</p> <p>▶ Worksheets</p> <p>▶ Geometer's Sketchpad</p> <p>▶ Cooperative Group Work</p> <p>▶ Manipulatives (Set, T-square, and miter box)</p>	<p>▶ Graded homework</p> <p>▶ Classroom observation</p> <p>▶ Online Quiz/Test</p> <p>▶ In Class Quiz/Test</p>		
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