

Planned Course: Geometry		Course Number: 302/303	Department: Mathematics
Unit:	Grade Level:		
Estimated Time:	Level/Track:		Date Approved: 7/15/2008
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>2.9.11.A Construct geometric figures using dynamic geometry tools (e.g., Geometer's Sketchpad, Cabri)</p> <p>2.8.11.J Demonstrate the connection between algebraic equations and inequalities and the geometry of relations in the coordinate plane.</p> <p>2.8.11.K Select, justify and apply an appropriate technique to graph a linear function in two variables, including slope-intercept, x- and y-intercepts, graphing by transformations and the use of a graphing calculator.</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>▶ 5. How can students use the coordinate plane to find relationships between lines and geometric shapes?</p> <p>▶ 5A. The students will be able to use coordinate geometry to find midpoint and slope and to determine parallel and perpendicular lines.</p> <p>▶ 5B. The students will be able to find the distance between two points in a coordinate plane.</p> <p>▶ 5C. The students will be able to use the Pythagorean Theorem.</p>	<p>▶ Overhead transparencies</p> <p>▶ Chalkboard Examples</p> <p>▶ PowerPoint Examples</p> <p>▶ Textbook Exercises</p> <p>▶ Geometer's Sketchpad</p> <p>▶ Grid Paper Investigations</p> <p>▶ Paper Folding</p>	<p>▶ Graded homework</p> <p>▶ Classroom observation</p> <p>▶ Online Quiz/Test</p> <p>▶ In Class Quiz/Test</p> <p>▶ Geometer's Sketchpad Assignment</p>
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