

<b>Planned Course: Foundations of Alg</b>	<b>Course Number: M304</b>	<b>Department:</b>	
<b>Unit: 5: Linear Functions</b>	<b>Grade Level: 9-12</b>		
<b>Estimated Time: 23 days</b>	<b>Level/Track: CT</b>	<b>Date Approved: 8/1/2013</b>	

<b>PA Academic Standards</b>	<b>Core Concepts (in question format)</b> • Skills/Knowledge	<b>Activities/Strategies/Study Skills</b> (identify some activities as remedial or enrichment activities)	<b>Assessments</b> (include types and topics)
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<p><b>A1.2.1.1.1</b> Write, solve, and/or apply a linear equation (including problem situations).</p> <p><b>A1.2.1.1.2</b> Determine whether a relation is a function, given a set of points or a graph.</p> <p><b>A1.2.1.2.1</b> Create, interpret, and/or use the equation, graph, or table of a linear function.</p> <p><b>A1.2.1.2.2</b> Translate from one representation of a linear function to another (i.e., graph, table, and equation).</p>	<p>► What does the slope of a line indicate about the line?</p> <p>► Can students find rates of change and slope from tables and graphs?</p> <p>► Can students write and graph equations in slope-intercept form?</p> <p>► Can students write and graph equations using point-slope form?</p> <p>► Can students write and graph equations using standard form?</p> <p>► Can students convert from standard form to slope-intercept form?</p> <p>► Can students write and identify parallel and perpendicular lines given the equations?</p> <p>► How can you make predictions based on a scatter plot.</p>	<ul style="list-style-type: none"> <li>• Warm Ups</li> <li>• Notes</li> <li>• Computer Interactive</li> <li>• Class Worksheets</li> <li>• Textbook Problems</li> <li>• Think-Pair-Share Activities</li> <li>• Videos</li> </ul> <p>Remediation:</p> <ul style="list-style-type: none"> <li>• Study Island Topic: Writing Linear Equations</li> </ul> <p>Enrichment:</p> <ul style="list-style-type: none"> <li>• Students will find examples of how linear equations and their graphs are incorporated in real world problems.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Tests</li> <li>▪ Homework</li> <li>▪ Graded Assignments</li> <li>▪ Classroom Participation</li> <li>▪ Questioning</li> <li>▪ Observation</li> </ul>
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