

<b>Planned Course: Algebra I</b>	<b>Course Number: M304</b>	<b>Department: Math</b>	
<b>Unit: Systems of Equations and Inequalities (5)</b>	<b>Grade Level: 7 - 12</b>		
<b>Estimated Time: 1 course</b>	<b>Level/Track: Keystone Algebra I</b>	<b>Date Approved: 08/22/2016</b>	
<b>PA Academic Standards</b>	<b>▶ Core Concepts (in question format)</b> <ul style="list-style-type: none"> <li>• Skills/Knowledge</li> </ul>	<b>Activities/Strategies/Study Skills</b> (identify some activities as remedial or enrichment activities)	<b>Assessments</b> (include types and topics)

<p><b>Algebra I Keystone Module 1 – Operations and Linear Equations &amp; Inequalities</b></p> <p><b>Assessment Anchor:</b> Linear Equations</p> <p><b>PA Core Standards:</b>  CC.2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.  CC.2.2.8.B.3 Analyze and solve linear equations and pairs of simultaneous linear equations.  CC.2.2.HS.D.7 Create and graph equations or inequalities to describe numbers or relationships.  CC.2.2.HS.D.9 Use reasoning to solve equations and justify the solution method.  CC.2.2.HS.D.10 Represent, solve, and interpret equations/inequalities and systems of equations/inequalities algebraically and graphically.</p> <p><b>Assessment Anchor:</b> Linear Inequalities</p> <p><b>PA Core Standards:</b>  CC.2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.  CC.2.2.HS.D.7 Create and graph equations or inequalities to describe numbers or relationships.</p>	<ul style="list-style-type: none"> <li>▶ How can you find a solution that satisfies two linear equations? <ul style="list-style-type: none"> <li>• 5-1 Identify solutions of systems of linear equations in two variables.</li> <li>• 5-1 Solve systems of linear equations in two variables by graphing.</li> <li>• 5-2 Solve systems of linear equations in two variables by substitution.</li> <li>• 5-3 Solve systems of linear equations in two variables by elimination.</li> <li>• 5-3 Compare and choose an appropriate method for solving systems of linear equations.</li> <li>• 5-4 Solve special systems of linear equations in two variables.</li> <li>• 5-4 Classify systems of linear equations and determine the number of solutions.</li> </ul> </li> <li>▶ How can you find solutions that satisfy two linear inequalities?</li> <li>▶ How do you graph one or more linear inequalities on a coordinate plane? <ul style="list-style-type: none"> <li>• 5-5 Graph and solve linear inequalities in two variables.</li> <li>• 5-6 Graph and solve systems of linear inequalities in two</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ Warm up exercise</li> <li>▶ Are You Ready? Intervention and Enrichment</li> <li>▶ Exercises in book</li> <li>▶ Keystone preparation resources (Study Island, Finish Line, USA Test Prep, Item Sampler, etc.)</li> <li>▶ Online tutorial video</li> <li>▶ MDC lessons</li> <li>▶ Interleave study guide</li> <li>▶ Spaced Learning Over Time (SLOT) review</li> </ul>	<ul style="list-style-type: none"> <li>▶ Quizzes (teacher created)</li> <li>▶ Summative chapter tests (common)</li> <li>▶ Quarterly assessments (common)</li> <li>▶ Graded assignments/projects</li> <li>▶ Formative assessments (homework, classwork, questioning, exit tickets, etc.)</li> </ul>
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CC.2.2.HS.D.9 Use reasoning to solve equations and justify the solution method. CC.2.2.HS.D.10 Represent, solve, and interpret equations/inequalities and systems of equations/inequalities algebraically and graphically.	variables.		
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