

<b>Planned Course: Algebra I</b>	<b>Course Number: M304</b>	<b>Department: Math</b>	
<b>Unit: Equations (1)</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> • 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>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.3 Apply quantitative reasoning to choose and interpret units and scales in formulas, graphs, and data displays.            CC.2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multi-step problems.            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.2.2.8.C.1 Define, evaluate, and compare functions.            CC.2.2.8.C.2 Use concepts of functions to model relationships between quantities.            CC.2.2.HS.C.3 Write functions or sequences that model relationships between two quantities.            CC.2.2.HS.D.7 Create and graph equations or inequalities to describe numbers or relationships.            CC.2.2.HS.D.8 Apply inverse operations to solve equations or formulas for a given variable.            CC.2.2.HS.D.9 Use reasoning to</p>	<p>▶ How do you write and solve linear equations using various methods?</p> <ul style="list-style-type: none"> <li>• Evaluate expressions (order of operations).</li> <li>• 1-1 Translate between words and algebra.</li> <li>• 1-1 Evaluate algebraic expressions.</li> <li>• 1-2 Solve one-step equations in one variable by using addition or subtraction.</li> <li>• 1-3 Solve one-step equations in one variable by using multiplication or division.</li> <li>• 1-4 Solve equations in one variable that contain more than one operation.</li> <li>• 1-5 Solve equations in one variable that contain variable terms on both sides.</li> <li>• 1-6 Solve a formula for a given variable.</li> <li>• 1-6 Solve an equation in two or more variables for one of the variables.</li> <li>• 1-7 Solve equations in one variable that contain absolute-value expressions.</li> <li>• 1-8 Write and use ratios, rates, and unit rates.</li> <li>• 1-8 Write and solve proportions.</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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<p>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> Operations with Real Numbers and Expressions</p> <p><b>PA Core Standards:</b> CC.2.1.HS.F.1 Apply and extend the properties of exponents to solve problems with rational exponents. CC.2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real-world or mathematical problems. CC.2.2.8.B.1 Apply concepts of radicals and integer exponents to generate equivalent expressions.</p>	<ul style="list-style-type: none"> <li>• 1-9 Use proportions to solve problems involving geometric figures.</li> <li>• 1-9 Use proportions and similar figures to measure objects indirectly.</li> </ul>				
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