

<b>Planned Course: Algebra I</b>	<b>Course Number: M304</b>	<b>Department: Math</b>	
<b>Unit: Data Analysis and Probability (8)</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 (identify some activities as remedial or enrichment activities)</b>	<b>Assessments (include types and topics)</b>

<p><b>Algebra I Keystone Module 2 –</b> Linear Functions and Data Organizations</p> <p><b>Assessment Anchor:</b> Data Analysis</p> <p><b>PA Core Standards:</b> CC.2.4.HS.B.1 Summarize, represent, and interpret data on a single count or measurement variable. CC.2.4.HS.B.3 Analyze linear models to make interpretations based on the data. CC.2.4.HS.B.5 Make inferences and justify conclusions based on sample surveys, experiments, and observational studies. CC.2.4.HS.B.4 Recognize and evaluate random processes underlying statistical experiments. CC.2.4.HS.B.7 Apply the rules of probability to compute probabilities of compound events in a uniform probability model.</p>	<ul style="list-style-type: none"> <li>▶ How do you organize data in tables, graphs, and plots? <ul style="list-style-type: none"> <li>• 10-1 Organize data in tables and graphs.</li> <li>• 10-1 Choose a table or graph to display data.</li> </ul> </li> <li>▶ How do you find the central tendency of a data set by calculating mean, median, and mode? <ul style="list-style-type: none"> <li>• 10-2 Create stem-and-leaf plots.</li> <li>• 10-2 Create frequency tables and histograms.</li> <li>• 10-3 Describe the central tendency of a data set.</li> <li>• 10-3 Create and interpret box-and-whisker plots.</li> </ul> </li> <li>▶ How do you write theoretical probability as ratios, percents, and decimals? <ul style="list-style-type: none"> <li>• 10-6 Determine the theoretical probability of an event.</li> <li>• 10-6 Convert between probabilities and odds.</li> <li>• 10-7 Find the probability of independent events.</li> <li>• 10-7 Find the probability of dependent events.</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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