

Planned Course: Foundations of Alg	Course Number: M304	Department:	
Unit: 4: An Introduction to Functions	Grade Level: 9-12		
Estimated Time: 14 days	Level/Track: CT	Date Approved: 8/1/2013	
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>A1.2.1.1.1 Write, solve, and/or apply a linear equation (including problem situations).</p> <p>A1.2.1.1.2 Determine whether a relation is a function, given a set of points or a graph.</p> <p>A1.2.1.1.3 Identify the domain or range of a relation (may be presented as ordered pairs, a graph, or a table).</p> <p>A1.2.1.2.1 Create, interpret, and/or use the equation, graph, or table of a linear function.</p> <p>A1.2.1.2.2 Translate from one representation of a linear function to another (i.e., graph, table, and equation).</p>	<p>► How can you represent and describe functions? ► Can students identify and represent relationships between linear variables using words, tables, equations, sets of ordered pairs, and graphs. ► Can students identify and represent relationships between non-linear variables using words, tables, equations, sets of ordered pairs, and graphs. ► Can students graph equations that represent linear and non-linear functions using a table of values? ► Can students write equations that represent functions? ► Can functions describe real world situations?</p> <p>► Can students determine whether a relation is a function, including using a mapping diagram or the vertical line test? ► Can students identify the range of the function given the</p>	<ul style="list-style-type: none"> • Warm Ups • Notes • Computer Interactive • Class Worksheets • Textbook Problems • Think-Pair-Share Activities • Videos <p>Remediation:</p> <ul style="list-style-type: none"> • Study Island Topic: Linear Equations <p>Enrichment:</p> <ul style="list-style-type: none"> • Students will find examples of how linear and non-linear functions are incorporated in real world problems. <ul style="list-style-type: none"> • Warm Ups • Notes • Computer Interactive • Class Worksheets • Textbook Problems • Think-Pair-Share Activities • Videos 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Tests ▪ Homework ▪ Graded Assignments ▪ Classroom Participation ▪ Questioning ▪ Observation <ul style="list-style-type: none"> ▪ Quizzes ▪ Tests ▪ Homework ▪ Graded Assignments ▪ Classroom Participation ▪ Questioning ▪ Observation
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	<p>domain?</p> <p>▶ Can students identify the domain and range of a set of points?</p>	<p>Remediation:</p> <ul style="list-style-type: none"> • Study Island Topic: Domain and Range <p>Enrichment:</p> <ul style="list-style-type: none"> • Students will find examples of how functions are incorporated in real world problems. 	
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