

Planned Course: Foundations of Alg		Course Number: M303	Department: Mathematics
Unit: 1: Foundations of Algebra		Grade Level: 7-12	
Estimated Time: 28 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>A1.1.1.1 Compare and/or order any real numbers. Note: Rational and irrational may be mixed.</p> <p>A1.1.2.1.2 Use and/or identify an algebraic property to justify any step in an equation-solving process. Note: Linear equations only.</p> <p>A1.1.2.1.3 Interpret solutions to problems in the context of the problem situation. Note: Linear equations only.</p> <p>A1.1.1.3.1 Simplify/evaluate expressions involving properties/laws of exponent, roots, and absolute values to solve problems.</p> <p>A1.2.1.2.2 Translate from one representation of a linear function to another (i.e. a graph, a table, and equation)</p>	<p>► Can students represent quantities, patterns, and relationships?</p> <p>► Can students use symbols to represent quantities that are unknown or that vary?</p> <p>► Can students simplify expressions using the order of operations?</p> <p>► Can students represent all classifications of numbers on a number line.</p> <p>► Can students relate the properties to algebra?</p> <p>► Can students rewrite and compare expressions using properties?</p> <p>► Can students add and subtract real numbers using models and rules?</p> <p>► Can students multiply and divide real numbers using models and rules?</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: Comparing and Ordering Numbers <p>Enrichment:</p> <ul style="list-style-type: none"> • Students will find examples of how the Real Numbers are incorporated to real world. <ul style="list-style-type: none"> • Warm Ups • Notes • Computer Interactive • Class Worksheets • Textbook Problems • Think-Pair-Share Activities • Videos • Property Graphic Organizers <p>Remediation:</p>	<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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	<ul style="list-style-type: none"> ▶ Can students use the distributive property to simplify the product of a number and a sum or difference? ▶ Can students find the value of one quantity in an equation if the value of another is known? ▶ Can students represent using tables, equations, and graphs? ▶ Can students graph using the coordinate plane (xy plane)? 	<ul style="list-style-type: none"> • Study Island Topic: Comparing and Ordering Numbers • Distributive Property Practice <p>Enrichment:</p> <ul style="list-style-type: none"> • Students begin exploring equations using word problems. 		