Planned Course: Foundations of Alg	Course Number: M303	Department: Mathematics	
Unit: Solving Inequalities Estimated Time: 25 days	Grade Level: 9-12 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)**
A1.1.3.1.1 Write or solve compound inequalities and/or graph their solution sets on a number line (may include absolute value inequalities). **A1.1.3.1.2** Identify or graph the solution set to a linear inequality on a number line. **A1.1.3.1.3** Interpret solutions to problems in the context of the problem situation. Note: Limit to linear inequalities.	▶**How do you represent relationships between quantities that are not equal?** ▶Can students write inequalities that represents verbal expressions? ▶Can students graph solutions to inequalities on the number line? ▶**How can you solve inequalities?** ▶Can students solve inequalities using addition and subtraction? ▶Can students solve inequalities using multiplication and division? ▶Can students solve multi-step inequalities using the properties of inequality? ▶Can students solve and graph compound inequalities using AND and OR? ▶Can students solve and graph absolute value equations and inequalities on a number line?	• Warm Ups • Notes • Computer Interactive • Class Worksheets • Textbook Problems • Think-Pair-Share Activities • Videos Remediation: • Study Island Topic: Compound Inequalities Enrichment: • Students will find examples of how Inequalities are incorporated in real world problems.	▪ Quizzes ▪ Tests ▪ Homework ▪ Graded Assignments ▪ Classroom Participation ▪ Questioning ▪ Observation

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