Unit 04: A1 - Ch. 3 - Inequalities & Absolute Value Equations/Inequalities

Content Area: Math

Course(s): Algebra 1CP, Algebra 1A, Algebra 1H

Time Period: Marking Period 1

Length: **9 Days** Status: **Published**

Unit Introduction

Standards

MA.A-SSE.A.1b Interpret complicated expressions by viewing one or more of their parts as a single entity.

MA.A-CED.A.1 Create equations and inequalities in one variable and use them to solve problems.

MA.A-REI.B.3 Solve linear equations and inequalities in one variable, including equations with

coefficients represented by letters.

Essential Questions

- Can inequalities that appear to be different be equivalent?
- · How can you solve inequalities?
- How do you represent relationshpis between quantities that are not equal?

Content

- 3.1 Inequalities & Their Graphs (Interval Notation) (1 Day)
- 3.2 Solving Inequalities Using Addition or Subtraction (0.5 Days)
- 3.3 Solving Inequalities Using Multiplication and Division (0.5 Days)
- 3.4 Solving Multi-Steph Inequalities (1 Day)
- 3.6 Compound Inequalities (1 Day)
- 3.7 Absolute Vaue Equations & Inequalities (2 Days)

Skills

- Dividing by a Negative Number
- · Dividing by a Positive Number
- Graphing an Inequality
- Identifying Solutions by Evaluating
- Inequalities with Special Solutions

- Multiplying by a Negative Number
- Multiplying by a Positive Number
- Solve an Absolute Value Equation with No Solution
- Solving a Compound Inequality Involving "And"
- Solving a Compound Inequality Involving "Or"
- Solving an Absolute Value Equation
- Solving an Absolute Value Inequality Involving Greater Than or Equal To
- Solving An Absolute Value Inequality Involving Less Than or Equal To
- Solving an Inequality and Checking Solutions
- Solving an Inequality with Variables on Both Sides
- Use graphing calculators and technology where appropriate
- Use relevant vocabulary, notations, and symbols when appropriate
- Using Interval Notation
- Using More than One Step
- Using the Addition Propert of Inequality
- Using the Distributive Property
- Using the Subtraaction Property of Inequality
- Writing a Compound Inequality
- Writing an Inequality from a Graph
- Writing and Solving a Compound Inequality
- Writing and Solving a Compound Inequality
- Writing and Solving an Inequality
- Writing and Solvinng a Multi-Step Inequality
- Writing Inequalities
- Writing Real-World Inequalities