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

Content Area: Math<br>Course(s): Algebra1 CP, Algebra 1A, Algebra 1H<br>Time Period: Marking Period 1 Length: Status:

## Unit Introduction

## Standards

MA.A-CED.A. 1
MA.A-REI.B. 3

MA.A-SSE.A.1b

Create equations and inequalities in one variable and use them to solve problems.
Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.

Interpret complicated expressions by viewing one or more of their parts as a single entity.

## 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

