


Topic: Unit 5: Linear Inequalities

Days: 14

Subject(s):

Grade(s):

**Key Learning: The need to formulate linear inequalities and investigate methods, interpret and determine the reasonableness of solutions to linear inequalities.**



**Unit Essential Question(s): How are inequalities and the function of inequality graphs used to resolve practical issues?**

**Concept:**  
**Graphing**

**Concept:**  
**Algebraic**

**Lesson Essential Question(s):**  
How can you solve inequalities using addition and subtraction and then represent the solution graphically? (A)

**Lesson Essential Question(s):**  
How can you solve inequalities by using multiplication and division properties of algebra? (A)

How do you solve compound inequalities that contain the words "and" and "or" and then represent the solution graphically? (A)

How can you solve inequalities using more than one operation and the Distributive Property? (A)

How do you solve linear inequalities by graphing in the coordinate plane? (A)

**Vocabulary:**  
Set-builder Notation, Compound Inequality, Intersection, Union, Boundary, Half-Plane, Closed Half-Plane, Open Half-Plane, Review Vocabulary: equivalent equations, linear equations

**Vocabulary:**  
multiplication property of inequalities, division property of inequalities

**Additional Information:**  
5.1, 5.2, 5.3, 5.4, 5.6.

**Attached Document(s):**

Vocab Report for Topic: Unit 5: Linear Inequalities  
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**Concept: Graphing**

Set-builder Notation, Compound Inequality, Intersection, Union, Boundary, Half-Plane, Closed Half-Plane, Open Half-Plane -

Review Vocabulary: equivalent equations, linear equations -

**Concept: Algebraic**

multiplication property of inequalities, division property of inequalities -