

03 Inequalities

Content Area: **Mathematics**
Course(s):
Time Period: **Week1**
Length: **1 Week**
Status: **Published**

Stage 1: Desired Results

Inequalities

Unit Overview/ Rationale

Standards & Indicators

Common Core: Mathematics, Common Core: Grade 8, Mathematical Practice

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

MA.7.7.EE.B.4b

Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$, where p , q , and r are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem.

Big Ideas - Students will understand that...

-Write inequalities and graph their solutions on number lines.

-Solve inequalities by adding, subtracting, multiplying, or dividing.

Essential Questions - What provocative questions will foster inquiry and transfer of learning

-What do the inequality symbols mean?

-How do you graph an inequality on a number line?

-How do you solve an inequality?

-How do you write an inequality to match a real-world situation?

Content - Students will know...

Key concepts:

Addition Property of Inequality, Division Property of Inequality, Inequality, Multiplication Property of Inequality, Solution of an inequality, Subtraction Property of Inequality.

Skills - Students will be able to...

-Learn how to gather data about a population.

-Use data from samples to make predictions and estimates about populations.

-Compare data about two populations using measures of center and measures of variability.

-Solve problems involving data sets.

Stage 2: Assessment Evidence

Assessment

Stage 3: Learning Plan

Learning Activities

Resources

Pearson

Algebra 1

c2012,

Chapter 3