

Unit Plan by Prioritized Standards

Content Area	7th Grade Math
Grade/Course	7th Math
Unit of Study	Unit Two: Expressions and Equations
Duration of Unit	21 days

Insert priority standards below (include code). **CIRCLE or Highlight** the **SKILLS** that students need to be able to do and **UNDERLINE** the **CONCEPTS** that students need to know. (address “supporting” standards in daily lesson plans)

MGSE7.EE.3. Solve multi-step and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, decimals) by applying properties of operations as strategies to calculate with numbers, converting between forms as appropriated, and assessing the reasonable of answers using mental computation and estimation strategies.

MGSE.EE.4. Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.

Skills (what must be able to do)	Concepts (what students need to know)	DOK Level / Bloom's
<ul style="list-style-type: none"> ▶ Solve real life math problems with positive and negative rational numbers (i.e., whole, fractions, and decimals) ▶ Apply properties ▶ Convert between forms ▶ Assess for reasonableness 	<ul style="list-style-type: none"> ▶ Use variables to represent quantities ▶ Construct simple equations and inequalities ▶ Solve problems by reasoning 	<p>2/Apply</p> <p>2/Understand</p> <p>2/Apply</p> <p>2/Apply</p>

Step 5: Determine BIG Ideas (enduring understandings students will remember long after the unit of study)

Step 6: Write Essential Questions (these guide instruction and assessment for all tasks. The big ideas are answers to the essential questions)

<ul style="list-style-type: none"> ● Variables can be used to represent numbers in any type mathematical problem. ● Understand the difference in an expression and an equation. ● Write and solve multi-step equations including all rational numbers. ● Some equations may have more than one solution. ● There are differences and similarities between equations and inequalities. 	<ul style="list-style-type: none"> ● How can we represent values using variables. ● What is the difference in an expression and an equation? ● What are the steps for rewriting expressions? ● How is an equation like a balance scale? ● How are variables used to solve equations? ● What are the similarities and differences between equations and inequalities? ● What strategies can be used to solve and
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graph inequalities?

Essential Unit Vocabulary

Algebraic expression
Coefficient
Constant
Equation
Inequality
Term
Numerical expression
Variable

Next step, create assessments and engaging learning experiences