

Math 7



Expressions, Equations, and Inequalities

Math 7 Curriculum

Power Objectives

P.O. #6: Write and solve expressions, equations, and inequalities (P.O.#6 Proficiency Rubric)

Academic Vocabulary

<input type="checkbox"/> variable	<input type="checkbox"/> construct	<input type="checkbox"/> vertical change
<input type="checkbox"/> independent variable	<input type="checkbox"/> standard form	<input type="checkbox"/> solve
<input type="checkbox"/> dependent variable	<input type="checkbox"/> expression	<input type="checkbox"/> create
<input type="checkbox"/> linear relationship	<input type="checkbox"/> exponent	<input type="checkbox"/> translate
<input type="checkbox"/> non linear relationship	<input type="checkbox"/> inequality	<input type="checkbox"/> identify
<input type="checkbox"/> function	<input type="checkbox"/> initial value	<input type="checkbox"/> graph
<input type="checkbox"/> y-intercept	<input type="checkbox"/> constant rate	<input type="checkbox"/> rise
<input type="checkbox"/> coefficient	<input type="checkbox"/> absolute value	<input type="checkbox"/> run
<input type="checkbox"/> rate of change	<input type="checkbox"/> slope	<input type="checkbox"/> horizontal change
<input type="checkbox"/> scientific notation	<input type="checkbox"/> steepness	<input type="checkbox"/> distributive property

Enduring Understandings

Students understand that...

- Variables can be used to represent numbers in any type of mathematical problem.
- Real world, multi-step problems can be solved using equations that represent patterns involving rational and irrational numbers.
- Expressions can be written in multiple forms.
- Some equations/inequalities have more than one solution.
- Linear relationships can be represented in tables, graphs, equations, words and symbolic representations, all of which are useful in different real world situations.
- Linear relationships help us to understand patterns, which help us to make decisions and solve problems in everyday life.

Essential Questions

- How can tables, graphs and equations of linear relationships be used to answer questions in everyday life?
- Why is it useful to know more than one way to solve a problem?
- How can analyzing and understanding patterns help us to make decisions in everyday life?

