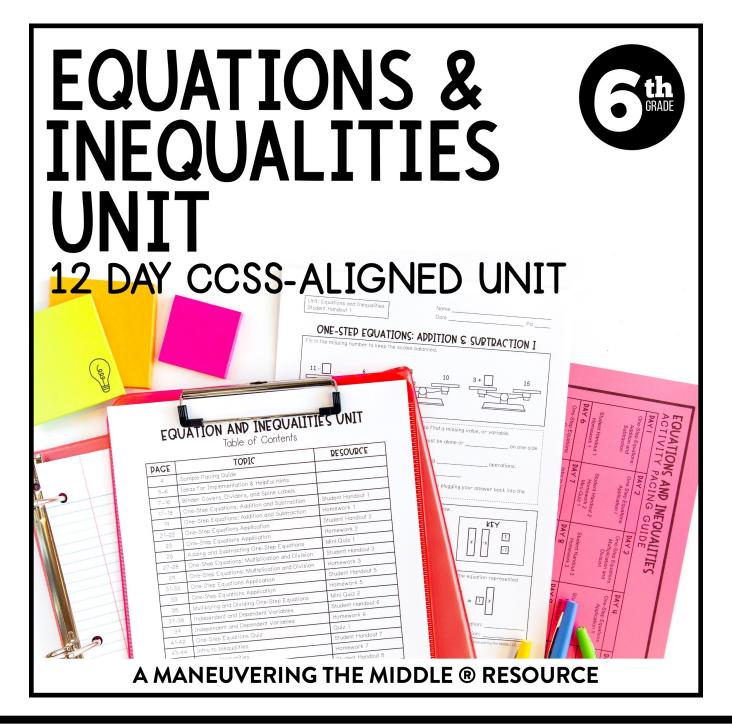
learning focus:

- model, write, and solve one-step equations and inequalities
- determine if a given value makes an equation or inequality true
- represent solutions for equations and inequalities on a number line





a 12 day CCSS-aligned unit CCSS: 6.EE.5, 6.EE.6, 6.EE.7, 6.EE.8, 6.EE.9

ready-to-go, scaffolded student materials

EQUATIONS AND INEQUALITIES UNIT

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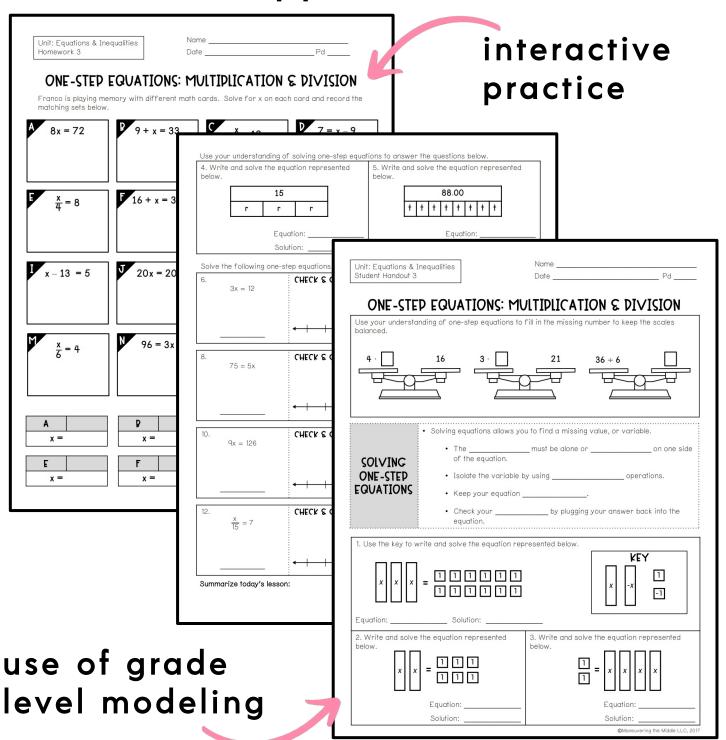
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student friendly + real-world application



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streamline your planning process with unit overviews

EQUATIONS AND INEQUALITIES



STANDARDS

6.EE.5 Understand solving an equation or an inequality as a process of answering a question: Which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.

6.EE.6 Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number or, depending on the purpose at hand, any number in a specified set.

6.EE.7 Solve real-world and mathematical problems by writing and solving equations of the form x + p = q and px = q for cases in which p, q, and x are all nonnegative rational numbers.

6.EE.8 Write an inequality of the form x > c or x < c to represent a constraint or a condition in the real-world or mathematical problem. Recognize that inequalities of the form x > c or x < c have infinitely many solutions; represent solutions of such inequalities on number line diagrams.

6.EE.9 Use variables to represent two quantities in a real-world problem that change in relationship to one another, write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.

One-Step Equations

Ouiz

Ouiz 1

Equations and Inequalities Unit Test

Unit Test

DAY II



key vocabulary



vertical alignment



- Equations are two mathema **E GU**
- An inequality represents two
- An inequality has infinitely r
- An equation has one solution

ESSENTIAL QUESTION

- What process can you use
- How does a graph on a nur
- How are independent and d
- · What patterns do you notio

EQUATIONS AND INEQUALITIES PACING GUIDE

Intro to Inequalities

Student Handout 6

NOTES



One-Step Equations: One-Step Equations: One-Step Equations: One-Step Equations: Independent and Addition and Application I Multiplication and Application II Dependent Variables Division Subtraction Student Handout 2 Student Handout 4 Student Handout 1 Homework 2 Homework 1 Mini-Quiz 1

sample pacing calendar

EQUATIONS AND INEQUALITIES PACING GUIDE



TOPIC	TEACHING TIPS	
Combining Like Terms	Write several different types of terms on the board. Ask two students to come up to the board with a fly swatter. When you call out a term, the first student to "swat" a like term wins the point for the team. Continue with other students. Keep score if your students can handle it.	
One-Step Equations	Start by displaying a very long and complex equation on the board. Explain that today you are setting the foundation for these types of equations. Then, require students to show their steps as they solve. This will come in handy when rational numbers are included in a few days. White board races, markers, and graffiti actives are all great ideas to spice up practice. Search www.maneuveringthemiddle.com for the post called "Turn Any Worksheet into an Activity" for more details and ideas.	
Independent and Dependent Variables		
Typically inequalities are more difficult because of the vocabulary required. Though it is helpful them to use a chart or notes, it can be beneficial to have them think about the context of the pro using these three questions: 1. Can it be equal to the value? 2. Can it be more than the value? 3. Can it be less than the value?		

It is also always helpful to relate it back to something they are very comfortable with (e.g. money, grades).

Once a student has graphed their solution, encourage them to test a number on the number line that is

teaching ideas

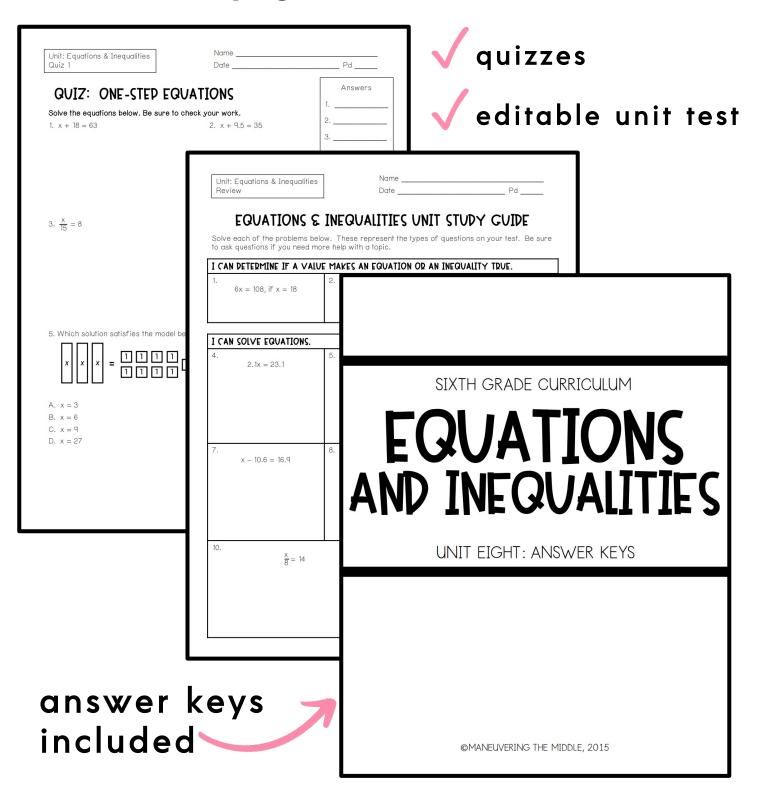
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Graphing Inequalities



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unit study guide + assessments



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