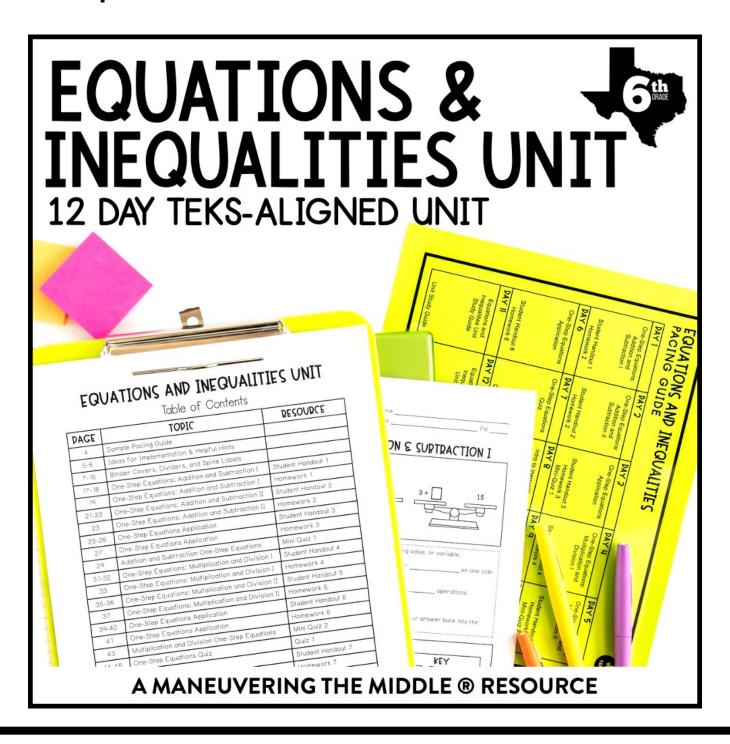
learning focus:

- 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





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ready-to-go, scaffolded student materials

EQUATIONS AND INEQUALITIES UNIT

Table of Contents

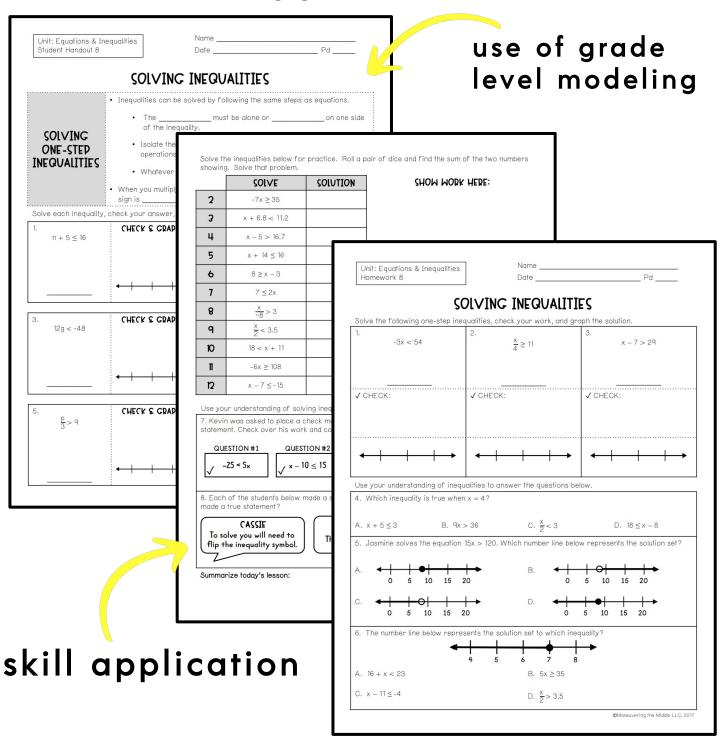
PAGE	TOPIC	RESOURCE	
4	Sample Pacing Guide		
5-6	Ideas for Implementation & Helpful Hints		
7-16	Binder Covers, Dividers, and Spine Labels		
17-18	One-Step Equations: Addition and Subtraction I	Student Handout 1	
19	One-Step Equations: Addition and Subtraction I	Homework 1	
21-22	One-Step Equations: Addition and Subtraction II	Student Handout 2	
23	One-Step Equations: Addition and Subtraction II Homework 2		
25-26	One-Step Equations Application I	Student Handout 3	
27	One-Step Equations Application I	Homework 3	
29	Addition and Subtraction One-Step Equations	Mini Quiz 1	
31-32	One-Step Equations: Multiplication and Division I	Student Handout 4	
33	One-Step Equations: Multiplication and Division I	Homework 4	
35-36	One-Step Equations: Multiplication and Division II	Student Handout 5	
37	One-Step Equations: Multiplication and Division II	Homework 5	
39-40	One-Step Equations Application II	Student Handout 6	
41	One-Step Equations Application II	Homework 6	
43	Multiplication and Division One-Step Equations	Mini Quiz 2	
45-46	One-Step Equations Quiz	Quiz 1	
47-48	Intro to Inequalities	Student Handout 7	
49	Intro to Inequalities	Homework 7	
51-52	Solving Inequalities	Student Handout 8	
53	Solving Inequalities	Homework 8	
55-56	Application of Inequalities	Student Handout 9	
57	Application of Inequalities	Homework 9	
58-62	Equations and Inequalities Unit Study Guide	Study Guide	
63-64	Equations and Inequalities Unit Test	Test	

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student friendly + real-world application



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TEKS: 6.9A, 6.9B, 6.9C, 6.10A, 6.10B

streamline your planning process with unit overviews

EQUATIONS AND INEQUALITIES



READINESS

6.10A Model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts.

SUPPORTING

6.9A Write one-variable, one-step equations and inequalities to represent constraints or conditions within problems.

6.9B Represent solutions for one-variable, onestep equations and inequalities on number lines.

6.9C Write corresponding real-world problems given one-variable, one-step equations or inequalities.

 ${\bf 6.10B}$ Determine if the given value(s) make(s) one-variable, one-step equations or inequalities true.



key vocabulary



vertical alignment



- Equations are two mathematics
- An inequality represents two
- An inequality has infinitely m
- An equation has one solution

ESSENTIAL QUESTION

- What process can you use to
- How does a graph on a num
- What patterns do you notice

EQUATIONS AND INEQUALITIES PACING GUIDE

One-Step Equations

Ouiz

Quiz 1

DAY 12

Equations and

Inequalities

Unit Test

One-Step Equations

Application II

Student Handout 6 Homework 6 Mini-Quiz 2

Equations and

Inequalities Unit

Study Guide

Unit Study Guide



DAY 2 DAY 3 DAY 4 DAY 5 One-Step Equations: One-Step Equations: One-Step Equations One-Step Equations: One-Step Equations: Multiplication and Multiplication and Addition and Application I Subtraction I Subtraction II Division I Division II Student Handout 3 Student Handout 4 Student Handout 1 Student Handout 2 Homework 2

sample pacing calendar

EQUATIONS AND INEQUALITIES OVERVIEW



TOPIC	TEACHING TIPS			
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. These lessons have been broken up purposefully so that you can scaffold the concept and process of solving an equation before including integer operations and positive rational numbers. Day one focuses on whole numbers with an emphasis on conceptual understanding using models. Day two focuses or incorporating the more challenging mathematical calculations. Whiteboard 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. If you choose to use algebra tiles as a model, then make sure that students understand the concept of zero pairs.			
One-Step Inequalities	Typically, inequalities are more difficult because of the vocabulary required. Though it is helpful for them to use a chart or notes, it can be beneficial to have them think about the context of the problem 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).			

included. Practice substituting a number back into the inequality

For additional practice, consider incorporating the Desmos activity, "Inequalities on the Number Line"

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

Unit: Equations & Inequalities Quiz 1 QUIZ: ONE-STED EQUA Solve the equations below. Be sure to cher 1. x + 18 = -23	1.	quizzes Answers deditable uni	t tesi
3. $\frac{x}{15} = 8$ 5. Which solution satisfies the model be x	Solve each of the problems below to ask questions if you need more	NEGUALITIES UNIT STUDY GUIDE These represent the types of questions on your test. Be sure help with a topic. MAKES AN EQUATION OR AN INEQUALITY TRUE. 6.100 SIXTH GRADE CURRICULUM EQUATION B. EQUATION OR AN INEQUALITY TRUE. 6.100 SIXTH GRADE CURRICULUM ADD INEQUALIT.	
	10. $\frac{x}{8} = 14$	UNIT SEVEN: ANSWER KEYS	
answer k included	-	©MANEUVERING THE MIDDLE, 2017	

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