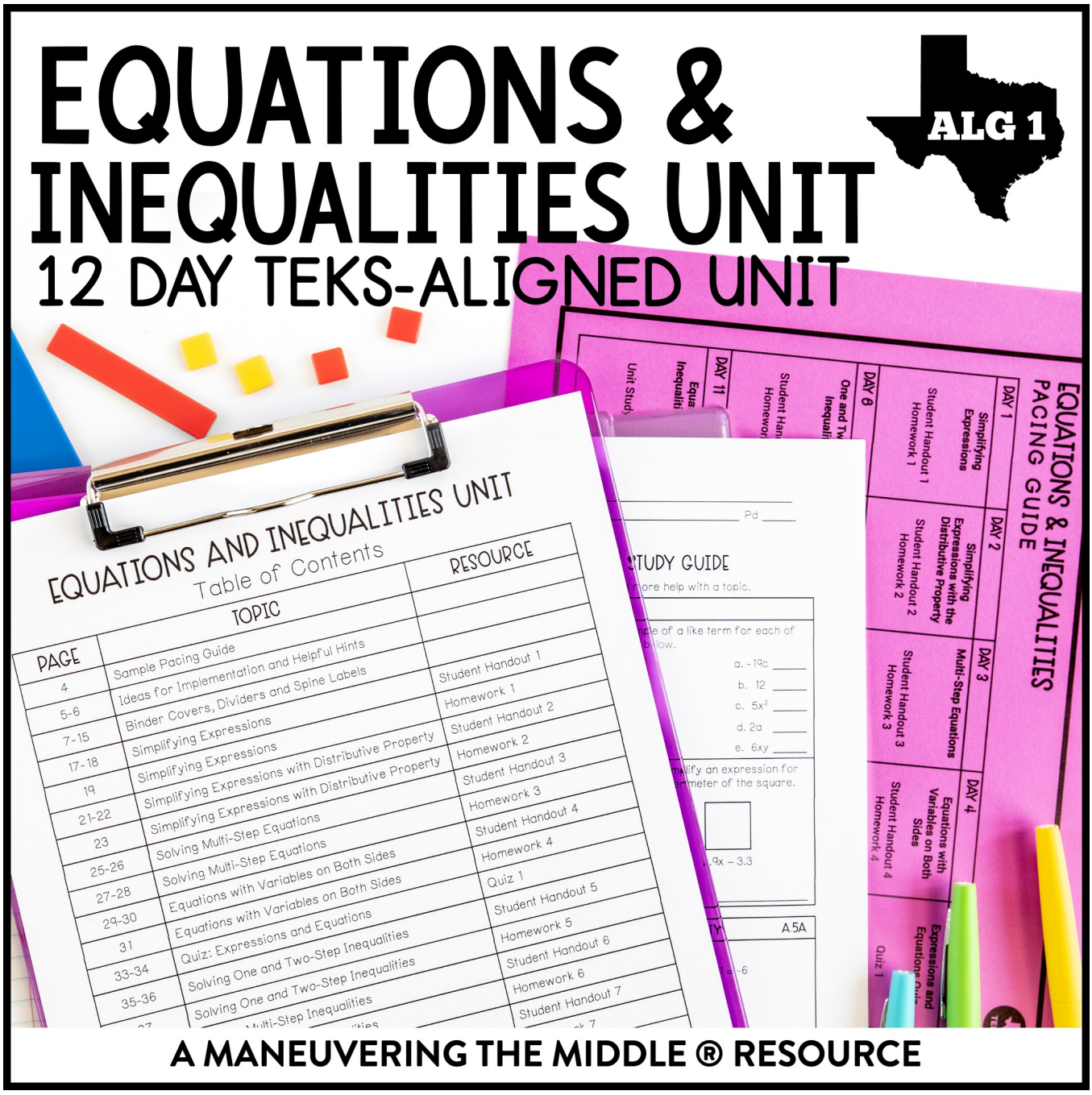
learning focus:

- ✓ solve multi-step linear equations including those with variables on both sides
- ✓ solve literal equations for a specified variable
- ✓ solve multi-step linear inequalities including those with variables on both sides



EQUATIONS & INEQUALITIES

a 12 day TEKS-aligned unit
TEKS: A.5A, A.5B, A.12E

ready-to-go, scaffolded student materials

EQUATIONS AND INEQUALITIES UNIT

Table of Contents

A MANEUVERING THE MIDDLE® RESOURCE

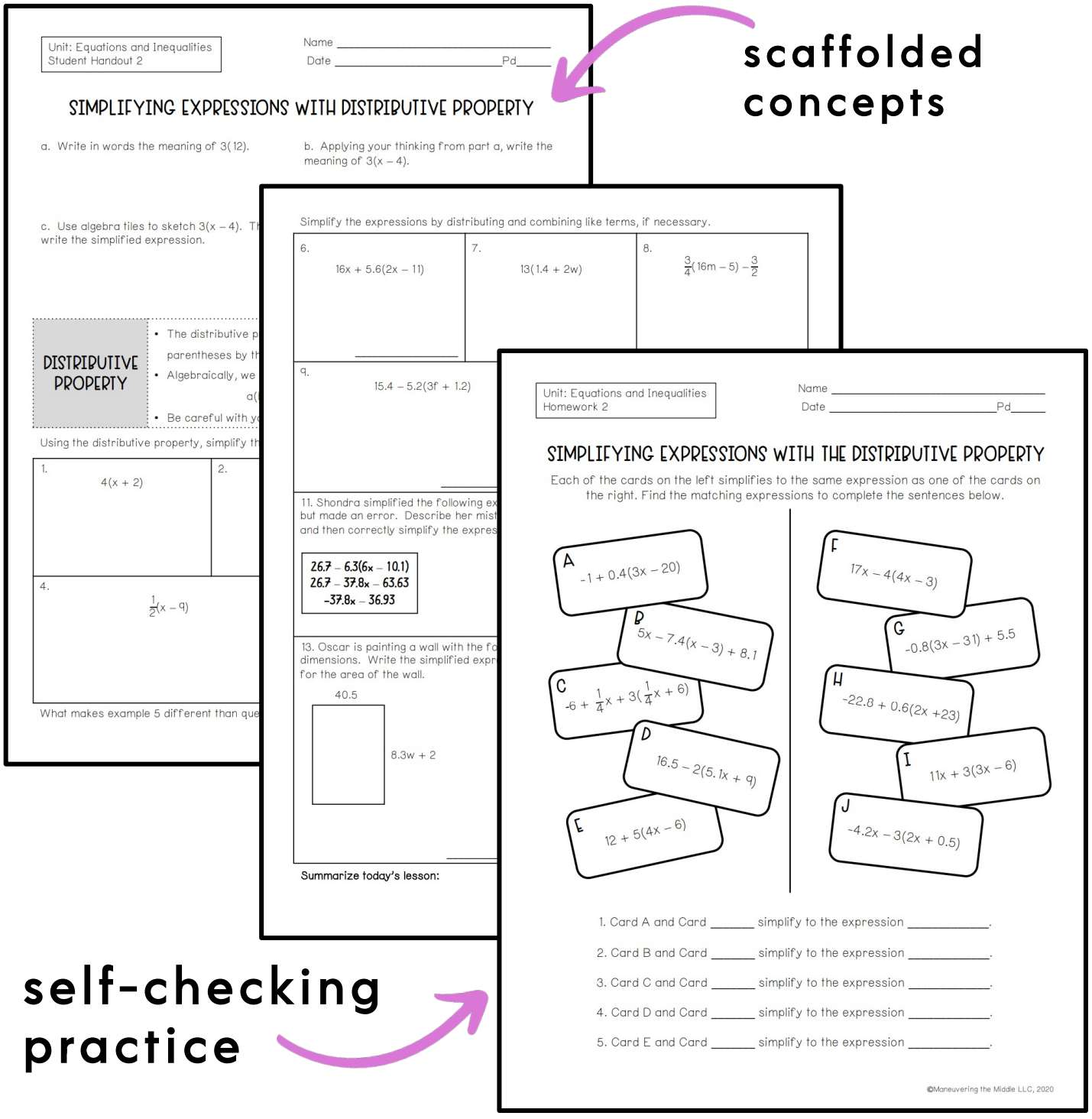
EQUATIONS & INEQUALITIES

ALG 1

a 12 day TEKS-aligned unit

TEKS: A.5A, A.5B, A.12E

student friendly + real-world application



scaffolded concepts

self-checking practice

A MANEUVERING THE MIDDLE® RESOURCE

EQUATIONS & INEQUALITIES

ALG 1

a 12 day TEKS-aligned unit

TEKS: A.5A, A.5B, A.12E

streamline your planning process with unit overviews

EQUATIONS AND INEQUALITIES
OVERVIEW

STANDARDS

READINESS	SUPPORTING
A.5A solve linear equations in one variable, including those for which the application of the distributive property is necessary and for which variables are included on both sides	**A.5B** solve linear inequalities in one variable, including those for which the application of the distributive property is necessary and for which variables are included on both sides **A.12E** solve mathematic and scientific formulas, and other literal equations, for a specified variable

BIG IDEAS

- Equations are two mathema or infinite solutions.
- Equations and inequalities c
- Expressions, equations, and problems.

ESSENTIAL QUESTIONS

- How can expressions, equat
- What determines when an e
- What are the benefits of rep

✓ key vocabulary

✓ vertical alignment

sample pacing calendar

EQUATIONS & INEQUALITIES
PACING GUIDE

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
Simplifying Expressions Student Handout 1 Homework 1	Simplifying Expressions with the Distributive Property Student Handout 2 Homework 2	Multi-Step Equations Student Handout 3	Equations with Variables on Both Sides Student Handout 4	Expressions and Equations Quiz
DAY 6	**DAY 7**			
One and Two-Step Inequalities Student Handout 5 Homework 5	Multi-Step Inequalities Student Handout 6 Homework 6			
DAY 11	**DAY 12**			
Equations & Inequalities Review Unit Study Guide	Equations and Inequalities Test Unit Test			

EQUATIONS & INEQUALITIES
OVERVIEW

TOPIC	TEACHING TIPS
Simplifying Expressions	• 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 a point for the team. Continue with other students. Keep score if your students can handle it. ☺ • Give each student a lanyard with various terms written (2x, 2y, $2x^2$, etc.) and ask them to find their families. Students will then attempt to group up based on various characteristics, typically by like terms. If they are incorrect, have them keep trying. If they are correct, have them find the rest of their family members. This great idea was shared by a friend and reader, Kayla. • Using colored pencils or shapes to group like terms is helpful for introducing this concept and for students who are struggling. A t-chart can also help organize work. • Watch for students who struggle to remember the coefficient of 1 in front of a lone variable. • Consider using a box method to model the distributive property. Algebra tiles work great, too!
Solving Equations	• Start by displaying a very long and complex equation on the board. Explain that today you are laying the foundation for these types of equations. • Whiteboard races, markers, and graffiti activities 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. You can find more information about algebra tiles here: www.maneuveringthemiddle.com/why-you-should-use-algebra-tiles • Draw a line through the equal sign to separate the two sides of the equation. • Make sure to actually say "2 times x equals 5" which helps remind students what operation is happening between the 2 and the x.

teaching ideas

A MANEUVERING THE MIDDLE® RESOURCE

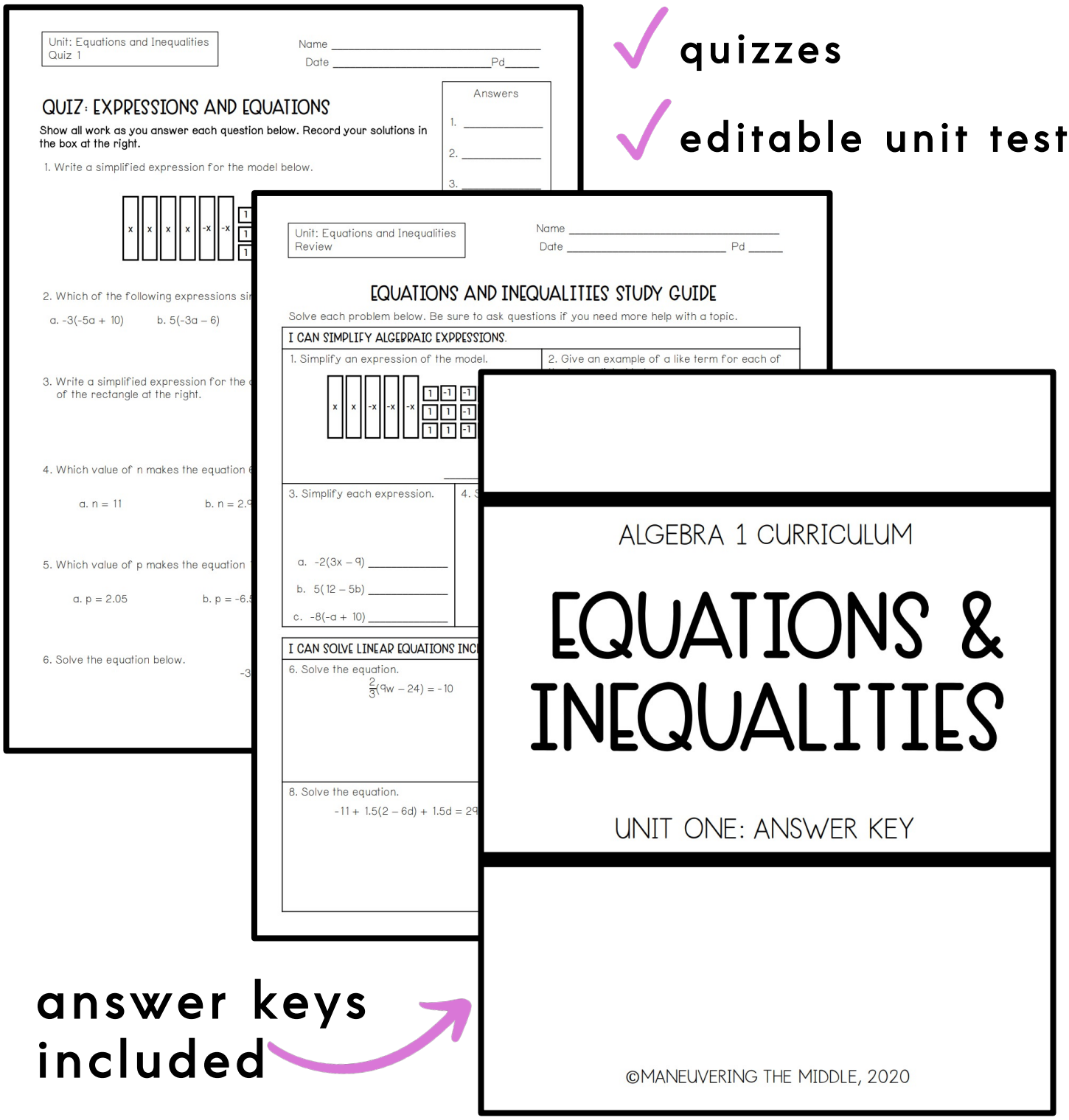
EQUATIONS & INEQUALITIES

ALG 1

a 12 day TEKS-aligned unit

TEKS: A.5A, A.5B, A.12E

unit study guide + assessments



✓ quizzes

✓ editable unit test

answer keys included

A MANEUVERING THE MIDDLE® RESOURCE