

Program Components

Introduction

This guide introduces the program components available for digits Texas—Savvas' comprehensive middle school math program.

digits Texas offers integrated instructional content designed to both optimize teachers' and students' time and to personalize learning. The digits Texas program components are managed and delivered through Savvas' SuccessNet® Plus platform.

Digital Content and Student Companion

The digits Texas curriculum is delivered by way of digital content, combined with a write-in Student Companion.

Students learn with the digital content and then use their write-in Student Companions to record their responses and demonstrate mathematical understanding. Writing in their own books and recording their thinking gives students a sense of ownership in their learning.

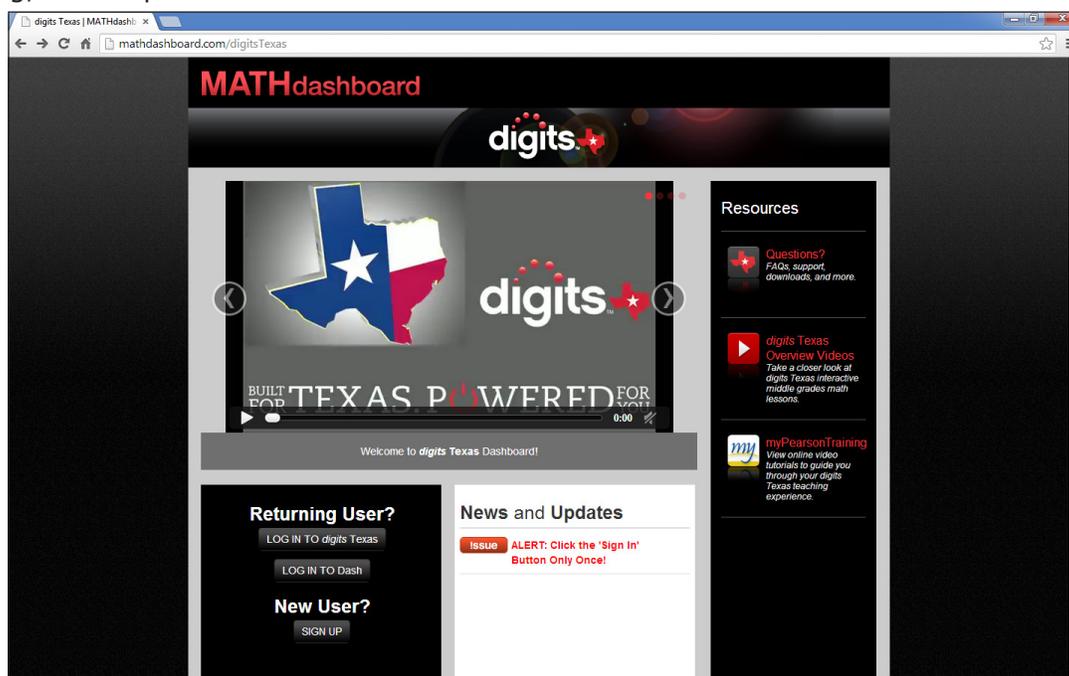


Teacher Resources

Flexible Teacher Resources consist of both online digital content and print components. The portal to the online digital content is located at the teacher site MATHdashboard.com/digitsTexas. An additional platform—Savvas DASH—offers digital lessons embedded with student resources for any device with online access. The print components include the *Teacher's Edition Program Overview Guide* and Unit Teacher Guides. There is also a DVD for offline access to the digital lessons.

digits Dashboard

MATHdashboard.com/digitsTexas is the command central where teachers can find program support and access their digits course via SuccessNet® Plus. Here, teachers can also view training tutorials and a link to the Community Connection site for frequently asked questions and support. MATHdashboard is updated regularly with author messages, digits Texas training, and helpful links.



Student Package

The Student Package consists of the online digital content accessed through the student site, MyMathUniverse.com/digitsTexas, the write-in Student Companion (print and ACTIVE-book), and the *Homework Helper*.

MyMathUniverse.com/digitsTexas

MyMathUniverse.com/digitsTexas is a digits portal where students can watch entertaining videos about the math they are learning and log in to their student accounts on SuccessNet® Plus.



Homework Helper

The *Homework Helper* is a hard-bound reference book that includes worked-out examples, key concepts, and a set of homework exercises. This resource supports students without online access.

SuccessNet® Plus

After logging in to SuccessNet® Plus, teachers can view the Table of Contents by clicking the digits course on the teacher home page. The Table of Contents displays a list of folders and icons that provide access to the program materials.

Table of Contents

The digits Table of Contents page is the starting point to access all classroom teaching materials. The folders and icons are color coded to represent On-Level, Prerequisites, Intervention, Topic Project, and Assessment resources. To open a folder and see the contents inside, click the plus sign next to the folder. To launch content indicated by an icon, click the item's name. Another option is to click the drop-down button, and then choose Preview from the Options drop-down menu.

What the Icons Mean

	Lessons	Lesson Plans	Printables
Within a Unit			
On Level			
Prerequisites			
Intervention			
Topic Project			
Assessment			
	Homework, Practice Set, Leveled Homework	Test	Study Plan, Test (Printable)

SAVVAS SuccessNet Plus

Home Classes Curriculum Planner

digits, Texas Edition, grade 5

Table of Contents (Self) Content Type) Topic

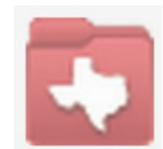
Resource Type All

What are you looking for?

Click on the to see the contents of any folder. Click on the to close the folder.

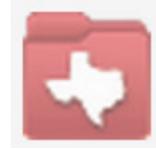
Evaluator's Guides

The Evaluator's Guides folder contains information on how to navigate and use the TEKS – ELPS Correlation. Watch the video, and then review the Evaluator's Guide and How to Navigate Digits.



TEKS – EPLS Correlation

The TEKS – ELPS Correlation folder contains information about the digits Texas correlations to both the Texas Essential Knowledge and Skills (TEKS) and English Language Proficiency Standards (ELPS). Open the subfolders to find references for both teachers and students.



SAVVAS SuccessNet Plus

Messages Help | Support | Setup Teacher One

Home Classes Curriculum Planner

digits, Texas Edition, grade 6

Table of Contents | Skill | Standard | Content Type | Topic

All Activities MathXL Practi...
Lesson Activity MathXL Test
MathXL Home...

Lesson Type
All Lessons Prerequisites ...
Lesson Intervention Le...
Topic Review ...
Learner Level Updater

View Results

TEKS - ELPS Correlation

TEKS Grade 6

6(1)(A)(i)

Student

Teacher

INSTRUCTION: Lesson 2-3, Part 1, Got It

INSTRUCTION: Lesson 2-3, Student Companion, p. 40, Part 1, Got It

INSTRUCTION: Lesson 2-3, Teacher Guide, pp. 6-7, Part 1, Got It

REVIEW/ASSESSMENT/ACTIVITY: Topic 2, Topic Review, Tasks 1 and 2

Teacher Orientation

The Teacher Orientation folder contains a quick overview of the Table of Contents, a guide to common tasks for teachers, a downloadable version of the *Program Overview Guide*, and a technical manual for using the online platform.



Units

The Unit folders contain subfolders with the Readiness Assessment, Enrichment Support, and topics that are taught in that unit.



Topics

Topic folders are broken down further into a Readiness Lesson, on-level lessons, and topic tests.



Prerequisites Lesson

Prerequisites folders and files are indicated by purple icons and have an “r” before the lesson number. Each Prerequisites folder contains the following items:



- Prerequisites lessons
- Activity sheets
- Homework
- Teacher Guide
- Lesson Plan

On-Level Lesson

Each on-level lesson contains four parts.

Class Lesson

Click the lesson icon to open a new window that launches the on-level lesson.



Homework Files

Open the Homework folders to access MathXL® for School homework files. The homework files consist of Homework and Mixed Review. To launch the leveled Homework assignments, use the drop-down menu, and then choose between Level G and Level K in the Preview option. Level G homework is for on-level students. Level K homework consists of a reteaching assignment for students who work below grade level.



In Homework The online option for homework provides students with **immediate feedback** on their work. When students provide a correct answer, they receive a message telling them so. When they are incorrect, they get a hint about what they may be doing wrong. ▶

The screenshot shows a homework problem: "There are 65 calories in 1 serving of cereal. If a bowl holds 6 servings, how many calories are in the bowl?" The user has entered "6" in the answer field. A "Help Me Solve This" window is open, showing the same problem and three multiple-choice options: A. The number of calories in 1 serving of cereal; B. The number of servings of cereal in the bowl; C. The number of calories in the bowl. Option C is selected. The window also provides a hint: "To find the number of calories in the bowl, multiply 6 by the number of calories for 1 serving." Below the hint is the equation $6 \times 65 \text{ calories} = \square \text{ calories}$. The interface includes a progress bar at the top (0 of 11 complete), a "Help Me Solve This" button, and a "More" button with a calculator icon. At the bottom, there are buttons for "Clear All", "Check Answer", and "Close".

Print homework options include the Homework Helper two-volume reference book and printable homework PDFs on the Teacher Resources DVD.

Teacher Guide

The Teacher Guide provides pacing and instructional support before, during, and after the lesson. This guide opens as a PDF.



Lesson 1-1 Integers and the Number Line In-Class Notes

FOCUS QUESTION
What are integers? Why do we need integers? What do integers allow you to do that whole numbers do not? [Sample answer: Integers are the set of positive whole numbers, their opposites, and zero. Integers allow us to represent quantities that are both greater than and less than zero, while whole numbers can only represent positive values and zero.]

LAUNCH (8 min)
TEKS 6(1)(C), 6(3)(C)

Before
• Is it possible for the temperature to be below 0°F? What would that tell you about the temperature? [Sample answer: The temperature can be below 0°F. It would be very cold.]

During
• What is a trend? What does the problem mean that the "trend continues"? [The trend is in the direction the temperature is moving. In this problem, the trend is that the temperature is decreasing, so if the trend continues, the temperature will continue to decrease.]
• Do you know what the exact temperature will be at 6 p.m.? Explain. [Sample answer: No; you only know the direction the temperature is moving. It does not move an exact number of degrees each hour.]

After
• What would you predict the temperature will be at 10 a.m. the next day? [Sample answer: Although the temperature is decreasing in the evening, you cannot assume that it continues to drop until the next morning. Weather conditions could change, and it is likely that the temperature increases once the sun rises in the morning.]

KEY CONCEPT (4 min)
TEKS 6(2)(B)

After the animation demonstrates the full number line, call on students to click on each radio button and explain the different types of numbers that appear. Emphasize that every negative number is the opposite of some positive number and that zero is neither positive nor negative. Explain that this is a new set of numbers students can work with, called integers, that incorporates whole numbers and their opposites.
• How are integers different from whole numbers? [Sample answer: Whole numbers set includes decimals or fractions, only integers include negative numbers.]
• How are the two numbers that make a pair of opposites similar? How are they different? [Sample answer: Opposites are the same distance from zero, but one is negative and the other is positive (including zero).]
• Why isn't zero negative or positive? [Sample answer: Zero cannot be to the right or to the left of zero.]

PART 1 (7 min)
TEKS 6(1)(D), 6(1)(F), 6(2)(B)

Before solving the problem
• Which integer is easiest to locate on a number line? [Sample answer: zero. It is usually already labeled and is a reference point for every other integer on the number line.]

While solving the problem
• How do you find the opposite of zero? [Sample answer: Zero is its own opposite.]

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Lesson 1-1 Integers and the Number Line In-Class Notes

FOCUS QUESTION
What are integers? Why do we need integers? What do integers allow you to do that whole numbers do not? [Sample answer: Integers are the set of positive whole numbers, their opposites, and zero. Integers allow us to represent quantities that are both greater than and less than zero, while whole numbers can only represent positive values and zero.]

LAUNCH (8 min)
TEKS 6(1)(C), 6(3)(C)

Before
• Is it possible for the temperature to be below 0°F? What would that tell you about the temperature? [Sample answer: The temperature can be below 0°F. It would be very cold.]

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• What is a trend? What does the problem mean that the "trend continues"? [The trend is in the direction the temperature is moving. In this problem, the trend is that the temperature is decreasing, so if the trend continues, the temperature will continue to decrease.]
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• What would you predict the temperature will be at 10 a.m. the next day? [Sample answer: Although the temperature is decreasing in the evening, you cannot assume that it continues to drop until the next morning. Weather conditions could change, and it is likely that the temperature increases once the sun rises in the morning.]

KEY CONCEPT (4 min)
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After the animation demonstrates the full number line, call on students to click on each radio button and explain the different types of numbers that appear. Emphasize that every negative number is the opposite of some positive number and that zero is neither positive nor negative. Explain that this is a new set of numbers students can work with, called integers, that incorporates whole numbers and their opposites.
• How are integers different from whole numbers? [Sample answer: Whole numbers set includes decimals or fractions, only integers include negative numbers.]
• How are the two numbers that make a pair of opposites similar? How are they different? [Sample answer: Opposites are the same distance from zero, but one is negative and the other is positive (including zero).]
• Why isn't zero negative or positive? [Sample answer: Zero cannot be to the right or to the left of zero.]

PART 1 (7 min)
TEKS 6(1)(D), 6(1)(F), 6(2)(B)

Before solving the problem
• Which integer is easiest to locate on a number line? [Sample answer: zero. It is usually already labeled and is a reference point for every other integer on the number line.]

While solving the problem
• How do you find the opposite of zero? [Sample answer: Zero is its own opposite.]

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Unit A: Number and Operations Preparation Notes

PACING

Topic 1: Integers and Rational Numbers	Single Period	Block
Prerequisites Assessment for Unit A	1 day	1 day
Prerequisites Lesson	1 day	1 day
Lesson 1-1: Integers and the Number Line	1 day	1 day
Lesson 1-2: Rational Numbers and the Number Line	1 day	1 day
Lesson 1-3: Comparing and Ordering Integers	1 day	1 day
Lesson 1-4: Absolute Value	1 day	1 day
Lesson 1-5: Comparing and Ordering Rational Numbers	1 day	1 day
Lesson 1-6: Ordered Pairs in the Coordinate Plane	1 day	1 day
Lesson 1-7: Additional Problem Solving	1 day	1 day
Topic 1 Review	1 day	1 day
Topic 1 Assessment	1 day	1 day
Total:	11 days	11 days

Topic 2: Multiplying and Dividing Fractions	Single Period	Block
Prerequisites Lesson	1 day	1 day
Lesson 2-1: Multiplying Two Fractions	1 day	1 day
Lesson 2-2: Multiplying Fractions and Mixed Numbers	1 day	1 day
Lesson 2-3: Dividing Unit Fractions by Unit Fractions	1 day	1 day
Lesson 2-4: Dividing Fractions and Mixed Numbers	1 day	1 day
Lesson 2-5: Problem Solving	1 day	1 day
Topic 2 Review	1 day	1 day
Topic 2 Assessment	1 day	1 day
Total:	8 days	4 days

Topic 3: Fluency With Decimals	Single Period	Block
Prerequisites Lesson	1 day	1 day
Lesson 3-1: Multiplying Decimals	1 day	1 day
Lesson 3-2: Dividing Decimals	1 day	1 day
Lesson 3-3: Decimals and Fractions	1 day	1 day
Lesson 3-4: Problem Solving	1 day	1 day
Topic 3 Review	1 day	1 day
Topic 3 Assessment	1 day	1 day
Total:	7 days	3 1/2 days

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Lesson Plans

Click the Lessons Plans icon to open a complete editable lesson plan with suggested content and specifications. Lesson plans can be customized and converted to PDFs for printing.



2-2: Multiplying Fractions and Mixed Numbers

Objectives

- Apply and extend previous understandings of multiplication with fractions.
- Solve real world problems involving multiplication of fractions and mixed numbers by using visual fraction models to represent the problem.

Overview/Materials

Essential Question for Topic
A fraction is part of a whole. What is a fraction of a fraction? Why does it matter?

Focus Question for Lesson
How can you compare the product of a proper fraction and a mixed number to the fraction? How can you compare the product of a proper fraction and a mixed number to the mixed number?

Standards

Standard

TEKS 6(3)(B): Number and operations. The student applies mathematical process standards to represent addition, subtraction, multiplication, and division while solving problems and justifying solutions. The student is expected to: determine, with and without computation, whether a quantity is increased or decreased when multiplied by a fraction, including values greater than or less than one;

TEKS 6(3)(E): Number and operations. The student applies mathematical process standards to represent addition, subtraction, multiplication, and division while solving problems and justifying solutions. The student is expected to: multiply and divide positive rational numbers fluently.

Lesson Links

[Lesson 2-2: Multiplying Fractions and Mixed Numbers](#)

[2-2 Homework](#)

Pacing

Standard
1 day

Block
1 half day

Element 1 of 1

Description	Resources	Pacing
Launch Pacing: 7 min Objective: Apply the Distributive Property to multiply by fractions or mixed numbers.	Type: Resources Text: Teacher Guide	See Description.
Part 1 Pacing: 8 min		

Topic Assessments

The Topic Test folder contains all of the materials for each Topic Assessment, including a launch icon to take the test on MathXL® for School, a study plan, and a printable Topic Assessment with an answer key.



Progress Monitoring

The Progress Monitoring folder contains the Beginning of the Year Diagnostic Test and the unit assessments. Students take the unit assessments online through MathXL® for School or on paper using a printable PDF.



Topic Project

The Topic Project folder contains unit-based enrichment projects that require students to demonstrate deeper understanding of the unit concepts through research and creativity. Each project includes a teacher support page. The Topic Project's flexible design means that teachers can assign it as independent work, group work, or whole-class work. The project provides a challenge for accelerated students and can be assigned at any time in a unit.



Intervention

The Intervention folder contains full intervention lessons for Response to Intervention (RtI) support. Intervention folders and files are indicated by orange icons and have an "i" before the lesson icon.



Each Intervention folder contains the following items:

- Intervention lesson
- Journal pages
- Practice sets
- Journal with answers
- Teacher Guide
- Lesson Plan

The screenshot shows a web-based interface for a "Lesson Check" activity. At the top, there are tabs for "Examples", "Part 1", "Part 2", and "Part 3", along with a "Teaching Support" dropdown. A yellow warning bar states: "When you complete practice materials, the submission and grade are not saved." Below this, the text reads "Example 1 Continued" and "Place the points shown on the number line." There are four blue fraction cards with red dots above them: $1\frac{3}{6}$, $2\frac{3}{6}$, $1\frac{1}{6}$, and $2\frac{5}{6}$. Below the cards is a number line from 0 to 3 with tick marks every $\frac{1}{6}$. At the bottom, there are navigation buttons: "LR", "Reset", "Solution", and "5 of 6".

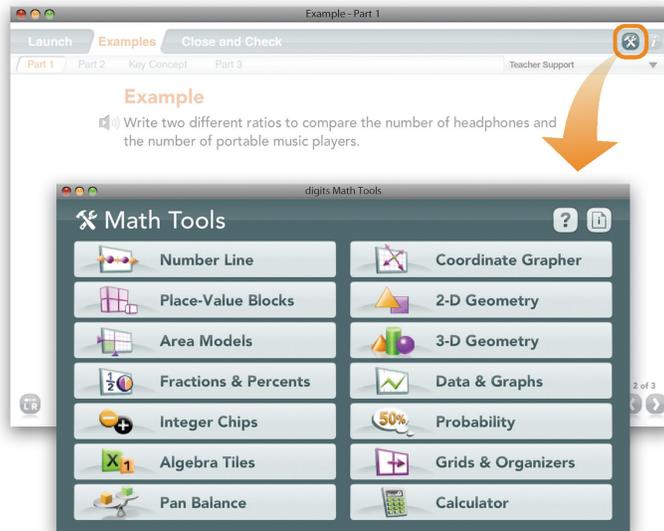
Math Tools



Click the Math Tools icon to open a new window to view a list of the Math Tools. Math Tools for the digits Texas program are virtual manipulatives that enable users to interact with, develop, and model math concepts on an interactive white board or computer.

Math Tools

Clicking on the **Math Tools** icon opens a new window with a list of the math tools.



Glossary



Click the Vocabulary icon to open the Vocabulary and Key Concepts (glossary) in a new window. The glossary contains a comprehensive list of all of the vocabulary in the digits course. When teachers access Vocabulary and Key Concepts within a lesson, the vocabulary of the specific lesson is presorted in a list.

Vocabulary and Key Concepts

Clicking on the Vocabulary and Key Concepts button opens a new window with the vocabulary and key concepts of the specific lesson that you are teaching pre-sorted in a list.

Spanish translation and other search options are built into the window. To review the vocabulary and key concepts from the previous lesson, simply select the lesson from the Lesson Vocabulary list.

- 1 Select English or Spanish
- 2 Select a term in the list to view the definition or explanation
- 3 Type or select a different term
- 4 Select a different lesson to view its vocabulary and key concepts

Technical Manual



The Technical Manual is a how-to guide to help teachers get started on the SuccessNet® Plus platform.

Review

This guide introduced the online digital content and program components available for Savvas' middle grades math program—digits Texas.