Navigating Cosenza & Associates Mathematics Materials

Step 1: Log in using the credentials provided for the grade level or course of your choice.



Step 2: After landing on the Teacher Dashboard, click the Learning Content panel in the left-hand Navigation Panel. Click **Library** to view the content.







Step 3: View the Content Library. Each icon contains the resources for that grade level or course.



Step 4: Click on the Teacher Course icon. The left-hand navigation panel contains the Unit-Lesson structures. The main panel contains information based on which tile in the navigation panel has been selected. The course opens with the **Course Level Documents**, including

- TEKS and ELPS citations
- Year at a Glance
- Prior Learning Guide
- Pacing Guide

- Teacher's Guide
- Implementation Guide
- Assessment Guide
- Problem-Solving Support

In the Course Level Documents, view the resources by clicking the name of the document. These documents are PDFs that will open in a new tab or window, based on your web browser settings.





Step 5: Click the Unit 1 tile in the navigation panel.

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Unit 1 Teacher Materials



Unit 1: Decimals, Fractions, and Percents

Lesson	TEKS	ELPS
Lesson 1: Representing Ratios and Percents	6.4E	1.A
Lesson 2: Benchmark Fractions and Percents	6.4F	2.C
Lesson 3: Equivalent Parts of the Same Whole	6.4G, 6.5C	2.D, 3.E
Lesson 4: Equivalent Fractions, Decimals, and Percents	6.4G	3.H
Lesson 5: Percents in the Real World	6.5B	1.F, 4.D
Unit 1 Test	6.4E, 6.4F, 6.4G, 6.5B, 6.5C	

Unit Introduction

In this unit, students extend their understanding of rational numbers to include the concept of a percent as a ratio where the whole is 100 parts. Students also flexibly generate equivalent forms of rational numbers for percents, fractions, and decimals. In doing so, students will use benchmark fractions and visual representations to represent equivalent parts of the same whole.

Unit Overview

In 4th grade, students learned how to flexibly convert between fractions and decimals. Students also used equivalent fractions to solve problems and in 5th grade use equivalent fractions to add and subtract fractions with different denominators.

Math-Grade 6 Unit 1 introduces students to percents and how to represent those with concrete models, fractions, and decimals. Students utilize benchmark fractions and percents as a tool to build on their prior learning experiences with fractions and decimals to generate equivalent forms of rational numbers (fractions, decimals, and percents). Students then use these ideas to solve meaningful real-world problems involving multiple representations of rational numbers in a variety of contexts, including money. Students also solve real-world problems involving percents, including finding the whole, part, or percent when given the other two pieces.

In Unit 3, students will compare and order multiple forms of rational numbers and may need to convert between forms (e.g., convert a fraction to a decimal or a percent to a decimal) in order to do so. As students progress through 6th grade and into 7th grade, they are

The Unit tile opens the Unit Overview page which contains:

- Lessons and their associated TEKS and ELPS
- Unit Introduction
- Unit Overview
- Prior Learning Supports for the content students will learn in that unit
- Additional resources including:
 - Unit Document containing TEKS and ELPS, potential pacing, potential calendars, resources, and vocabulary terms
 - o Parent letters in English and Spanish



Step 6: Click on the Unit 1 Lesson 1 tile. The lesson components will expand. Middle school lessons have three components: Exploration, Explanation, and Performance Task. *Algebraic Reasoning* lessons have sections of the textbook that correspond with that lesson, and each of the 5E's: Engage, Explore, Explain, Elaborate, and Evaluate.





Step 7: Click the lesson component tile in the navigation panel. Browse through each lesson, reviewing links to teacher and/or student-facing artifacts and teacher supports for facilitating the lesson, differentiating instruction, and questioning strategies.

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Unit 1: Decimals, Fractions, and

Unit 1, Lesson 1:

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Exploration: Unit 1

Explanation: Unit 1

Performance Task: Unit 1

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Percents 06 items

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Exploration: Unit 1 Lesson 1

Exploration (20-25 minutes)

- Group students in a visibly random way (e.g. playing cards, drawing straws, spinner, etc.) into groups no larger than three students per group.
- Watch the video: M6U1l1 Representing Ratios and Percents.mp4
- Distribute the activity sheet. M6U1l1 Representing Ratios and Percents.pdf
 - Answer Key M6U111 Representing Ratios and Percents AK.pdf
- Provide student groups with scissors and glue, tape, or pasteFacilitate student group exploration and reflection.

Instructional Hints

- To connect with prior learning, provide students with hundreds grids to represent a decimal and visually
 illustrate the connection between the number of squares shaded and the number written as a percent.
- Proportionality rods (e.g., Cuisenaire® rods) are an excellent way to show relationships among quantities when
 demonstrating ratios. Use these as a visual representation to show the relationships with different ratios. For
 example, if a fruit basket contains 2 apples and 3 oranges, use proportionality rods to show the number of
 pieces of fruit in 2 baskets, 3 baskets, and so on.

Support for Emergent Bilinguals

 Help students activate their prior knowledge (ELPS 1A) using strategies such as graphic organizers or a KWL chart to record what students already know about the topic. In this lesson, students should come into 6th grade with experience representing fractions and decimals using visual models such as fraction strips and hundreds charts. Activate that prior knowledge so that students may extend it to include fractions, decimals, and percents.

Support Student Reasoning and Productive Struggle through Questioning

Clarifying Question(s)

• When you say _____, what do you mean?

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Unit 1, Lesson 2: Benchmark Fractions and Percents



Unit 2, Lesson 1: Explore

Explore (15 minutes)

- Refer to your note from Unit 1, Lesson 2 to determine student groupings
- Provide each group of no more than three students with a copy of the STAAR Algebra 1 Reference Materials and graphing technology.
 Assign the half the student groups that previously completed #1-6 to complete #7-12 on pages 13 and 14 and the other half of the student
- groups that previously completed #7-12 to complete #1-6 on pages 12 and 13 . • Facilitate student group exploration and reflection on pages 12-13. Sec 1.2 Algebraic Reasoning SE 2024
- Support for Emergent Bilinguals:
 - Writing newly acquired vocabulary helps emergent bilinguals internalize vocabulary they have recently learned. Using vocabulary from current and past learning experiences (e.g. linear function, finite differences) to explain their thinking and mathematical reasoning reinforces how these terms are consistent through a variety of contexts.
- As needed, support student reasoning and productive struggle through questioning
 - Clarifying Question(s)
 - Can you explain that in a different way?
 Focusing Question(s)
 - Focusing Question(s)
 What is this problem about?
 - Advancing Question(s) [ask and walk away]
 - Which value(s) represent the slope?
 - Which value represents the y-intercept?
 - Assessing Question(s)
 - After groups that had different problems share with one another:
 - How does the answer for the second scenario compare to the beach house rental scenario?
 - Which of the two situations is an increasing function? A decreasing function?



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Step 8: Middle school courses and *Algebraic Reasoning* have unit tests. *Algebraic Reasoning* also has mid-unit quizzes. Each course has printable PDFs of tests as well as interactive versions of the same quizzes and tests that students may take online.



Step 9: Return to the Library and click on the TEKS Companion Guide Student Edition.





Step 10: Explore the features of the ePub. In this review account, we present the entire *TEKS Companion Guide* as one book for ease of review. In the live version of the course, teachers assign one lesson to students as needed.





Step 11: Click the hot spot icon to see the questions in the Assessment Player. These question sets can be assigned to students through the ePub or the teacher's Assessment dashboard. Questions are a variety of item types and students have access to an equation editor for short-answer style questions.

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	Point	Coordinate
	A	(-1, 2)
	В	(2, 5)
	С	(4, -1)
	D	(-2, -1)
	Coordinates of point <i>C</i> : $($)
	y-coordinate of point <i>M</i> . 3 × = _	
	Coordinates of point <i>M</i> : (,)



Step 12: Return to the main window and click Assessment in the left-hand navigation panel. Click Questions.



Step 13: Browse through individual questions by clicking on the tile. The tile has the first few lines of the question, tags for the TEKS that the question assesses, and the question type (e.g., "descriptive" is a short answer question). Click the Filter icon to filter questions by tag (TEKS). Click the + tile to add a new question. Click the hamburger lines on any tile to clone and then edit an existing question.





Step 14: Click Standard Tests in the left-hand navigation panel under the Assessment tab. Practice/Homework questions, You-Try-It! questions, mid-unit quizzes, and unit tests are available as Standard Tests. Tests may be cloned and edited or created from the question bank. Click the + icon to create a new Standard Test using customized questions.

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