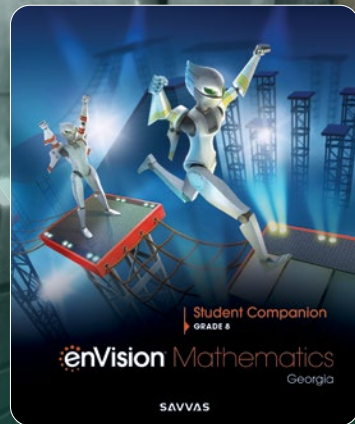
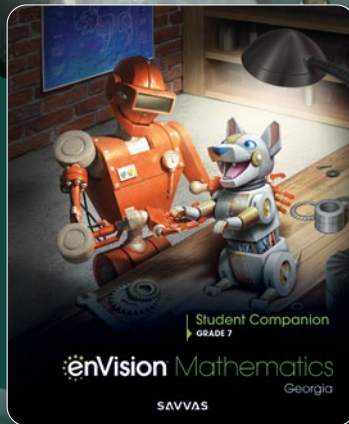
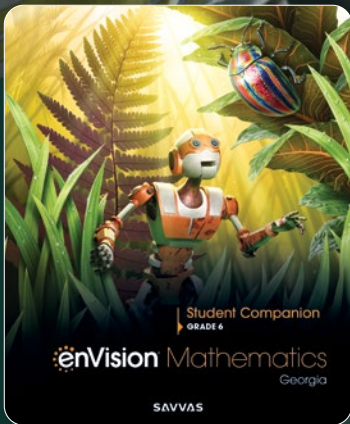


SAVVAS

Program Overview
Grades 6–8



Kids See the Math. Teachers See Results.

enVision® Mathematics
Georgia

enVision[®] Mathematics

Georgia

You're going to love what you see. The new *enVision[®] Mathematics Georgia* © 2024 for grades 6–8 helps develop deep conceptual understanding, personalize learning, and use student data to inform instruction.

Built for Success

1

Build Understanding

Problem-Based Learning and Visual Learning deepen conceptual understanding of mathematics.

2

Personalize Learning

Formative and summative assessments drive differentiated instruction.

3

Get Expert Instructional Support

Meaningful, accessible instructional support provides flexibility for planning and instruction.



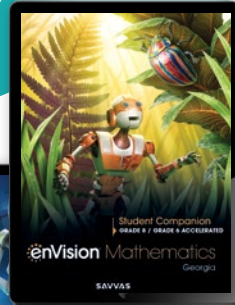
Built for Georgia!



Georgia Student Companion

Print and online PDFs

The consumable booklet includes lessons and additional practice just for Georgia, targeted to the Georgia Mathematics Standards.



Grade 6 Accelerated & Grade 7 Accelerated Pathway

A blend of print and digital components are available to prepare students for Algebra in Grade 8.

See the next 2 pages for details about a new accelerated pathway just for Georgia.



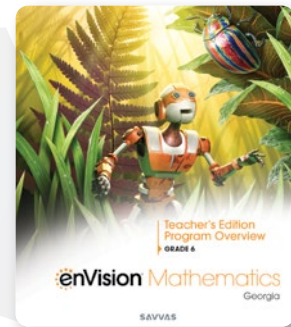
Teacher's Edition 2 Volumes

Topics and lessons align to Mathematics Standards and balance instructional focus, coherence, and rigor. Includes embedded math background and professional development.



Georgia Teacher Edition Snap-in Tabs

Provide alignment for the Georgia Mathematics Standards that can be inserted right in the Teacher's Edition for instant reference.

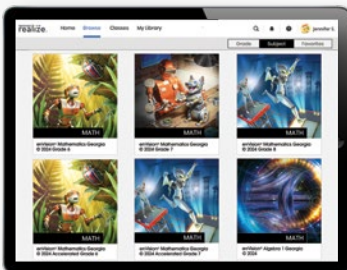


Georgia Teacher's Edition Program Overview

A user's guide and Georgia resource in one! Includes:

- Georgia Table of Contents
- Georgia Correlations
- Instruction for Georgia-specific Lessons

Georgia Digital Course on Savvas Realize™



All *enVision® Mathematics Georgia* resources are available on SavvasRealize.com. Easy-to-navigate content aligns to the Georgia Mathematics Standards. Lessons in the digital Table of Contents are at point of use and are fully customizable. English and Spanish resources are in one course. No toggling between multiple locations. Easy access to Savvy™ Adaptive Practice.

Math Fluency for ALL Learners

Does Your School Implement an Accelerated Pathway?

enVision® Mathematics Georgia Accelerated Grade 6 and *enVision® Mathematics Georgia Accelerated Grade 7* prepare students for success in Algebra.

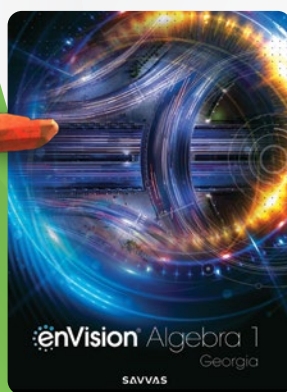


Acceleration for Georgia Teachers & Students:

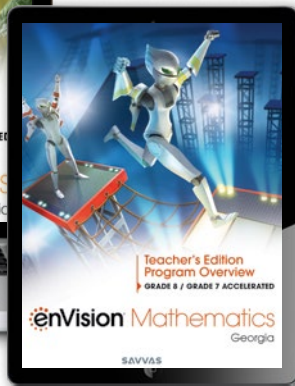
- Georgia Teacher's Edition Program Overview provides Accelerated Correlations, Scope and Sequence, and grade-specific content for accelerated courses.
- Flexible Digital Course incorporates any district or state changes that might arise during adoption.
- Custom accelerated correlation information is available with full search and reporting by standard.

Accelerate Students for Algebra

The accelerated pathway offered with *enVision® Mathematics Georgia* prepares students for Algebra 1 in Grade 8. The shared pedagogy and lesson organization across the *enVision® Mathematics* and *enVision® A/GIA* programs provide Georgia students with a comprehensive and engaging route to content mastery.



Everything You Need for Acceleration, Digitally in One Course



Georgia Lessons

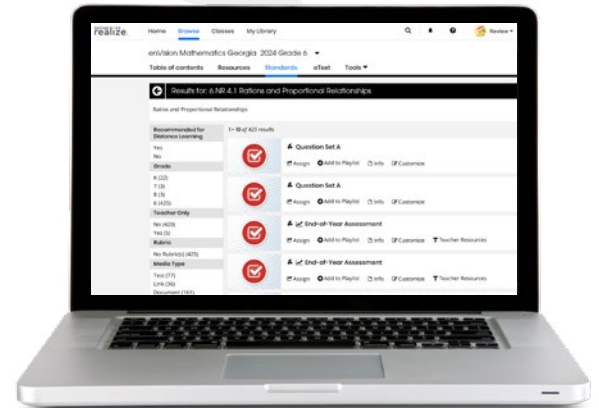
Super easy digital lessons are available to accelerate your content.

Georgia Accelerated Teacher's Edition Program Overview

A user's guide and professional development resource in one with additional content related to accelerated pathway.

Custom Accelerated Correlations

All Georgia Correlation information is available digitally with full search by Standard. Table of Contents is available digitally.



Georgia Savvas Realize™ digital assets support the accelerated pathway with custom lessons, lesson quizzes, and additional practice with MathXL® for School from Pearson.

UNDERSTANDING

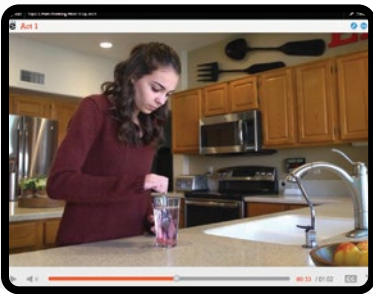
See What They Can Do

Engaging, motivationally-rich tasks make math inviting and interesting for all students. These low-threshold, high-ceiling opportunities offer students unique math experiences.

3-Act Math

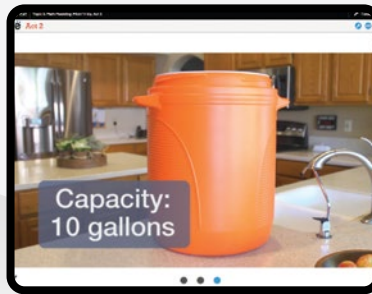
Build students' confidence to think mathematically and solve problems on their own.

ACT 1: THE HOOK



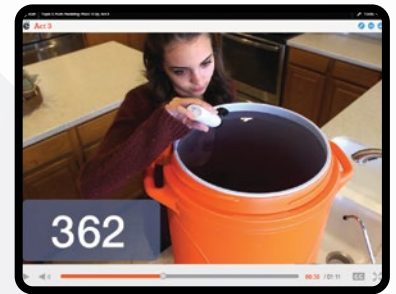
A video or photo hooks students with the task and provokes questions.

ACT 2: THE MODEL



Students develop mathematical models to arrive at a solution that makes sense to them.

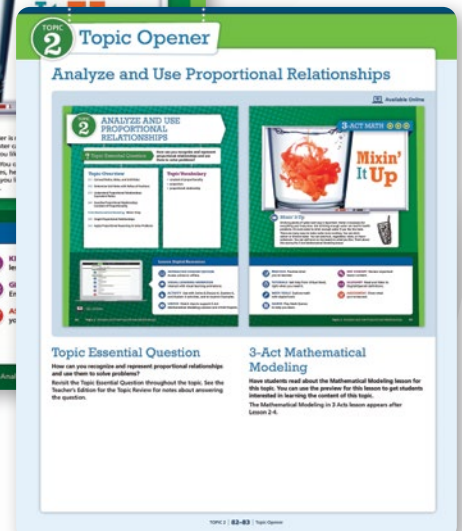
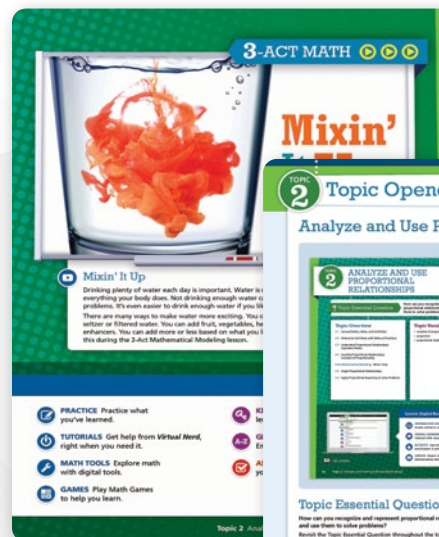
ACT 3: THE RESOLUTION



Visuals help students explain differences between their own conjectures and a possible solution.

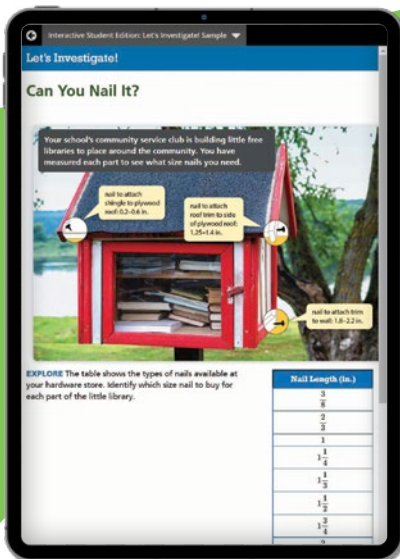
Focus on Mathematical Modeling

- Students make genuine choices and determine information needed to solve a problem.
- Lessons provide a vehicle for building conceptual understanding through productive struggle.



Let's Investigate!

Let's Investigate!, 3-Act Math, Pick a Project, and *enVision*® STEM Projects invite every student's input to build a collective understanding of new ideas.

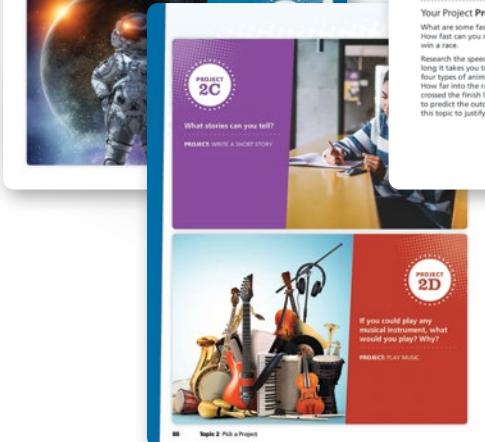
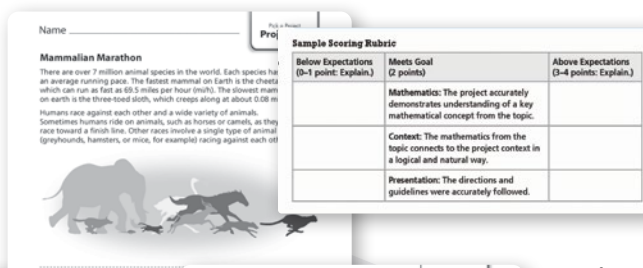


Student-Led Exploration

Let's Investigate! provides a problem-based learning option to replace all or part of a core lesson or lessons. These lessons give more time for exploration and digging deeper into the mathematics. Provided online, these resources can be easily printed.

- **Encourage productive struggle** by activating prior knowledge to build on in future lessons.
- **Real-world contexts** with compelling questions ask students to draw on their own experiences.
- **Hands-on** activities with physical and digital manipulatives promote a **growth mindset**.

High-interest math projects invite all students to be active participants.



Pick a Project

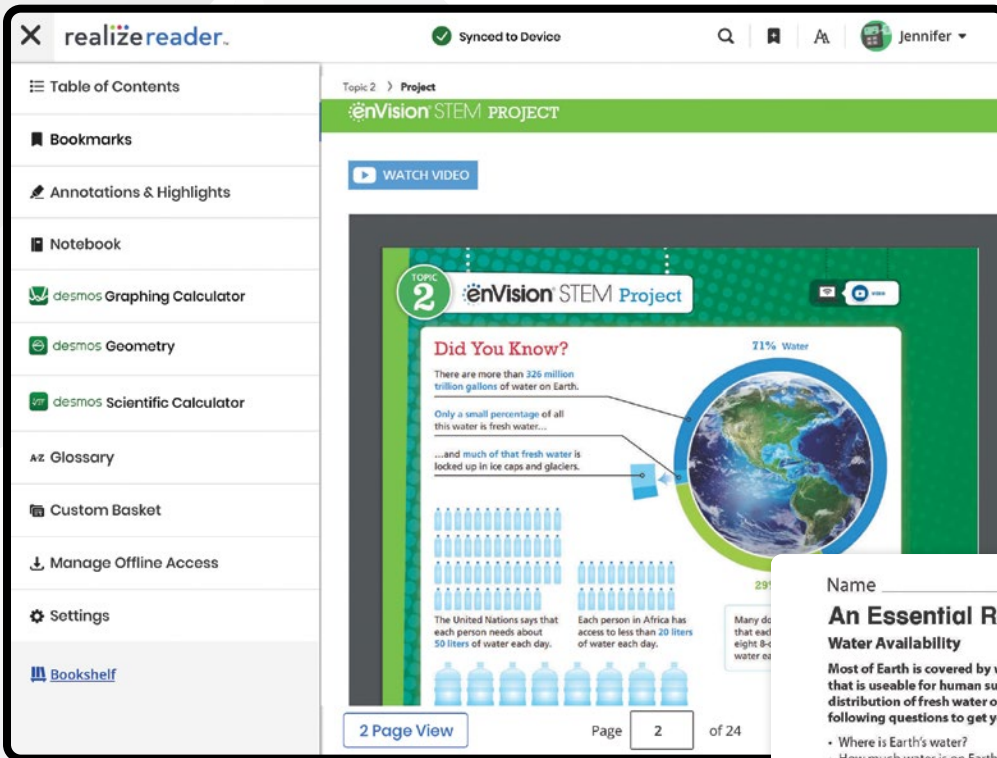
Students explore and complete interesting projects—it's motivating because THEY choose!

- Varied contexts (what interests students)
- Varied modalities (how students like to work)
- Varied final products (what students like to create)

Student
Choice,
Differentiation,
Open-Ended
Rich Tasks

UNDERSTANDING

Designed for Flexible Implementation



enVision® STEM Project

- Kick off each Topic with an in-depth STEM Project you can tailor to fit the needs of your classroom.
- Launch with NBC Learn™ videos for every project!
- Explore situations that address real social, economic, and environmental issues.
- Designed for flexible implementation.
- Projects incorporate the engineering process.
- Fully aligned to new science standards.

Name _____

STEM Project
Topic 2

An Essential Resource

Water Availability

Most of Earth is covered by water. Only a small portion of that water is fresh water that is useable for human survival. Complete this page to explore the quantity and distribution of fresh water on Earth. If you struggle with your research, try the following questions to get you started.

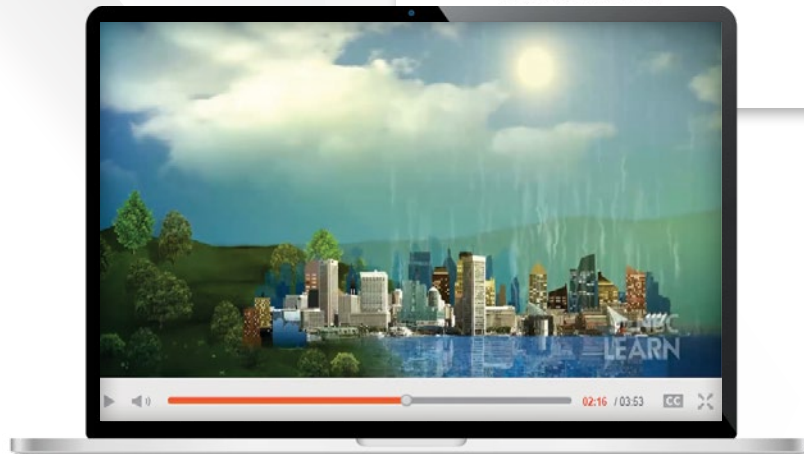
- Where is Earth's water?
- How much water is on Earth?
- What is the distribution of water on Earth?

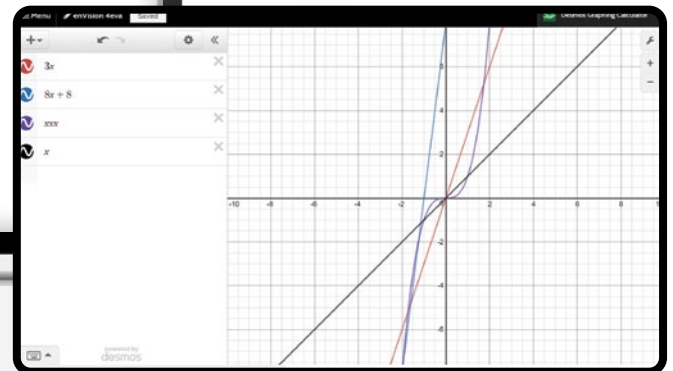
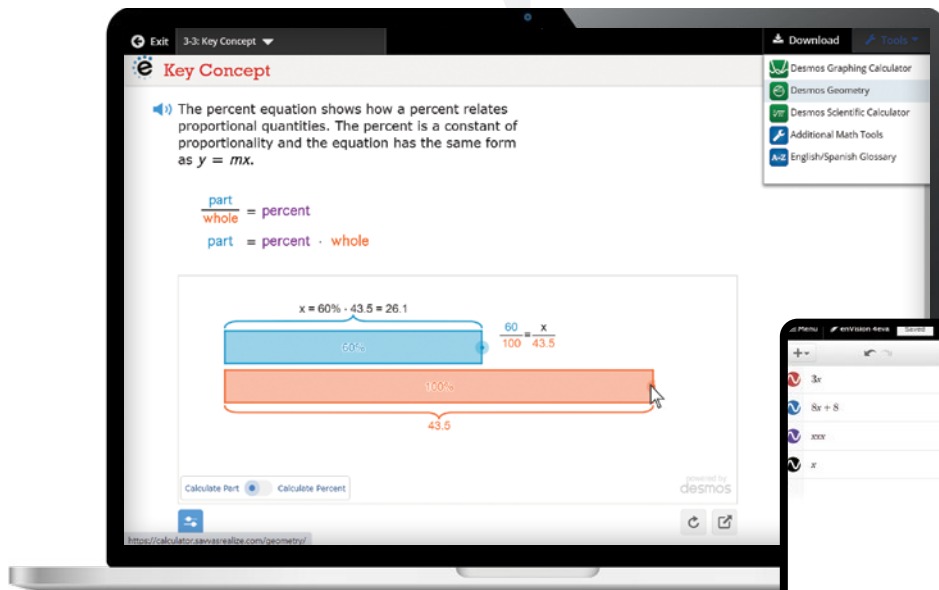
Part A Research different types of water sources and complete the table.

	Salt Water	Fresh Water
Sources List the different types of sources of each type of water.		
Percent of all water on Earth		

Part B Which fresh water sources are easily accessible surface water?

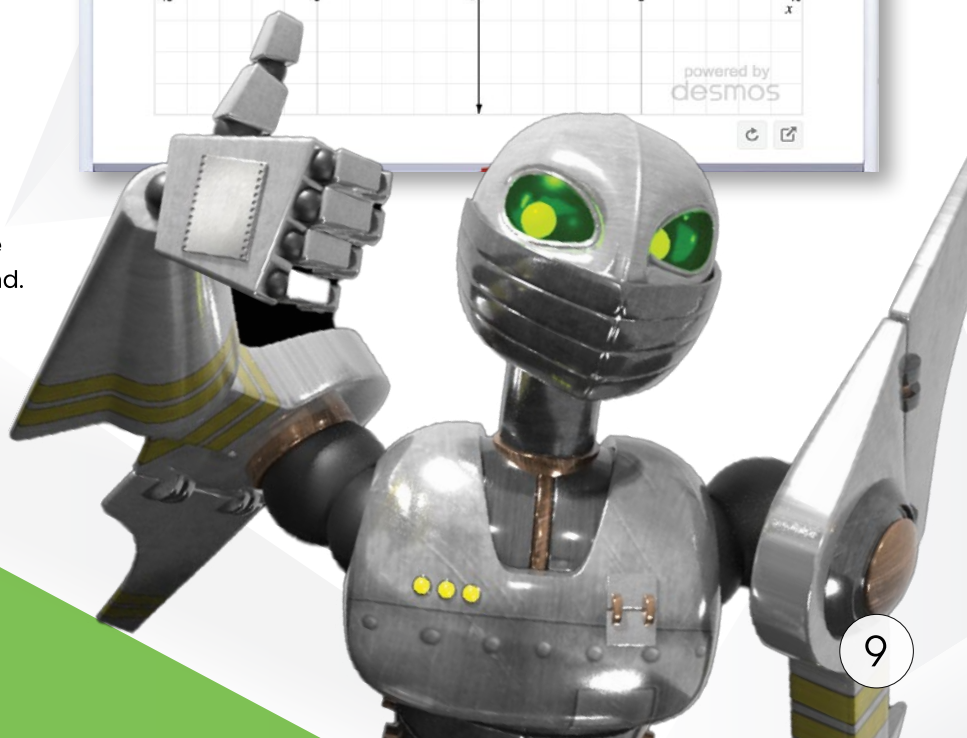
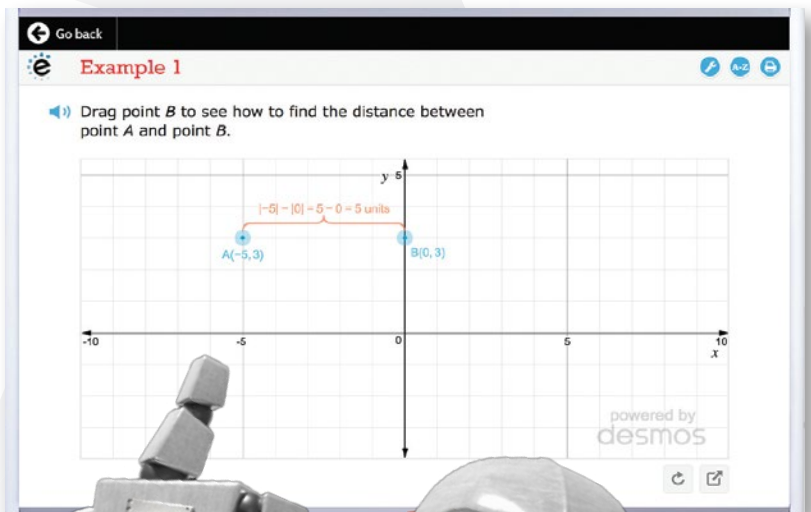
Part C What are some fresh water sources in your state? Are they big enough to supply all your state's water needs?





Embedded Interactivities Powered by Desmos™ Graphing Calculator

- **Modify instruction.** Use cutting-edge graphing calculator and geometry technology to deepen conceptual understanding.
- **Vary delivery of technology.** Interactivities are built into Problem-Based Learning, Visual Learning Animation Plus, Try It!, Examples, and Key Concepts throughout the program.
- **Exclusive to enVision – switches, sliders, and buttons** enable more focused student exploration.
- **Access Desmos any time.** Students and teachers can open the Anytime Tool powered by Desmos on demand.



UNDERSTANDING

I Can See Clearly Now!

Starting on a firm foundation of conceptual understanding, students can connect and apply math ideas in amazing ways.

Clear, Intentional Lesson Design

STEP 1

Problem-Based Learning

STEP 2

Visual Learning

STEP 3

Assess & Differentiate

STEP 1

Problem-Based Learning

Solve & Discuss It!

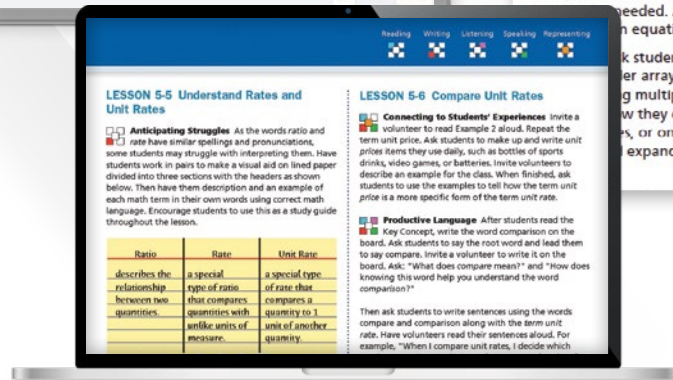
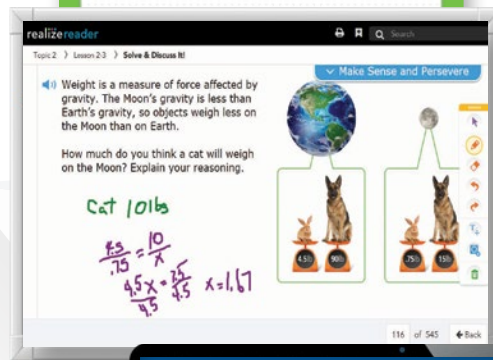
Introduce concepts through problem-solving experiences. Facilitate rich classroom conversations that promote a growth mindset and result in deeper conceptual understanding. Explore It! and Explain It! activities, at least once per Topic, focus on mathematical modeling and communication.

Solve & Discuss It! Online

Interactive workspace engages students and encourages active participation in learning.

Language Support Handbook

Topic and lesson-specific instructional support promotes language development including support for academic vocabulary.



English Language Learners

All lessons include a Language Objective and ELL instruction to support different levels of English proficiency aligned with WIDA specifications.

ENGLISH LANGUAGE LEARNERS

Use with the *Solve & Share on Student's Edition* p. 77.

Speaking

Review the term *array*. Show the array from the problem with counters. **This is an array.** Move counters to show examples and non-examples of arrays. Each time, have students say *yes* or *no* to tell you if you have shown smaller arrays.

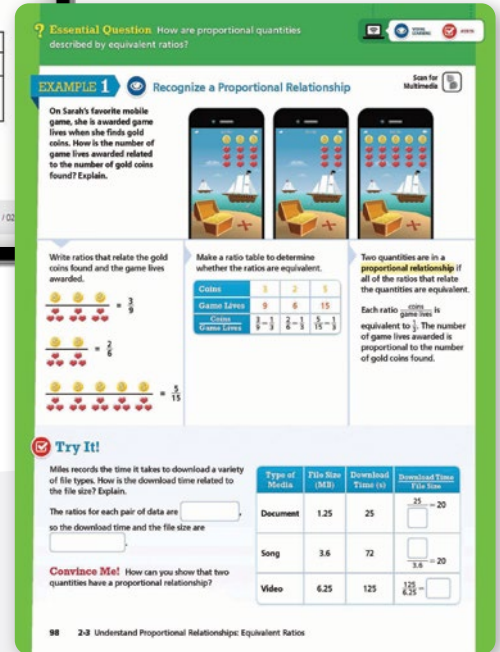
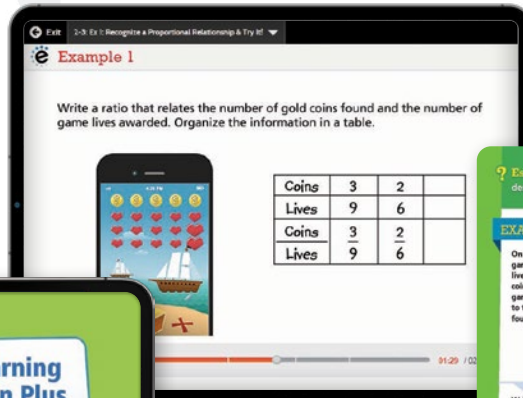
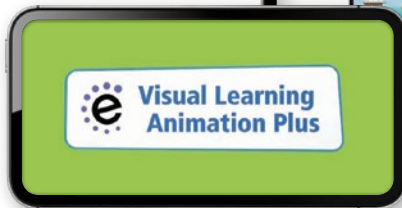
Ask students to work with a partner to represent two smaller arrays, using counters. Repeat. Ask students to write equations for their arrays.

Ask students to point to each array as they say the multiplication fact. Students say how they decided on the total, *yes*, or one or two words. Repeat, and expand on their answers,



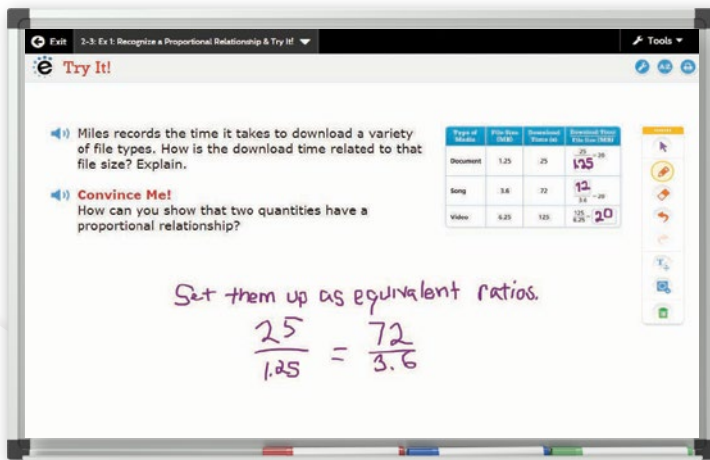
BouncePages

Launch Visual Learning Animation Plus videos from the student page with BouncePages.SavvasRealize.com.



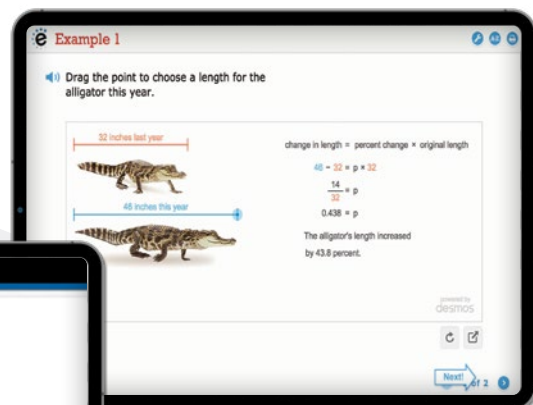
STEP 2 Visual Learning

- Visual instruction gives learners greater access to concepts.
- Make key math ideas explicit through instruction connected to Step 1.
- Visual Learning Animation Plus interactivity promotes conceptual understanding.
- Formative assessment opportunities drive decision-making.



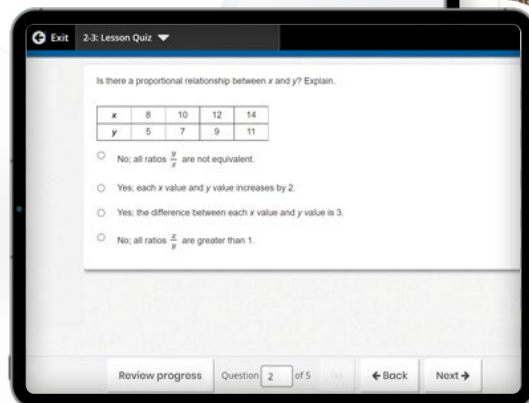
Try It!/Convince Me! Online

Explain, justify, use reasoning. Animations facilitate class discussion. Convince Me! connects back to the Essential Question.



STEP 3 Assess and Differentiate

Ensure that students understand lesson concepts and are prepared for high-stakes assessments.



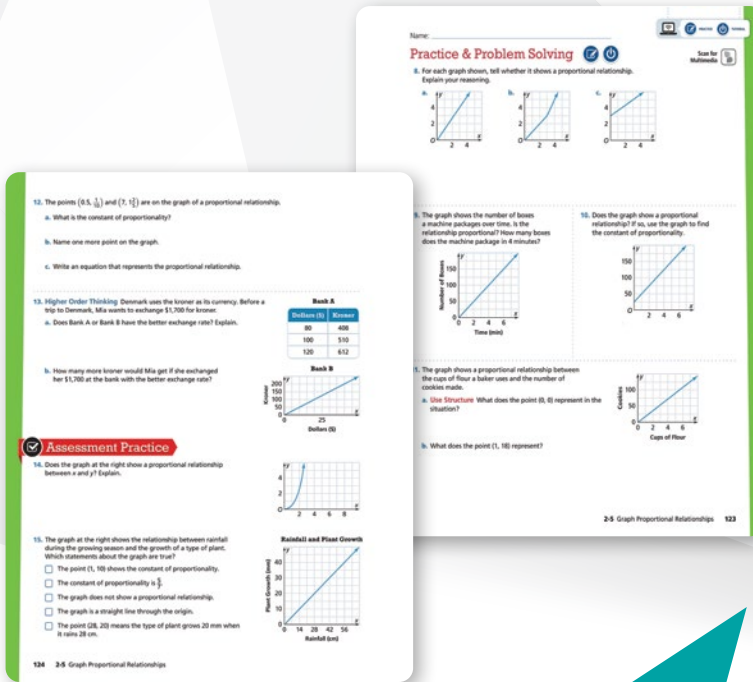
Additional Examples

More examples, both in print and online, allow for additional direct instruction options. Digital-only examples are also included.

UNDERSTANDING

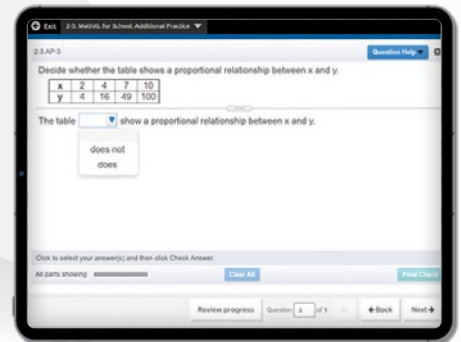
Practice with a Purpose

Personalized and adaptive learning encourages students to build their mathematical understanding and demonstrate proficiency.



Practice and Problem Solving

- Build mathematical proficiency
- Promote higher-order thinking
- Help prepare students for high-stakes assessments



MathXL® for School from Pearson: Additional Practice

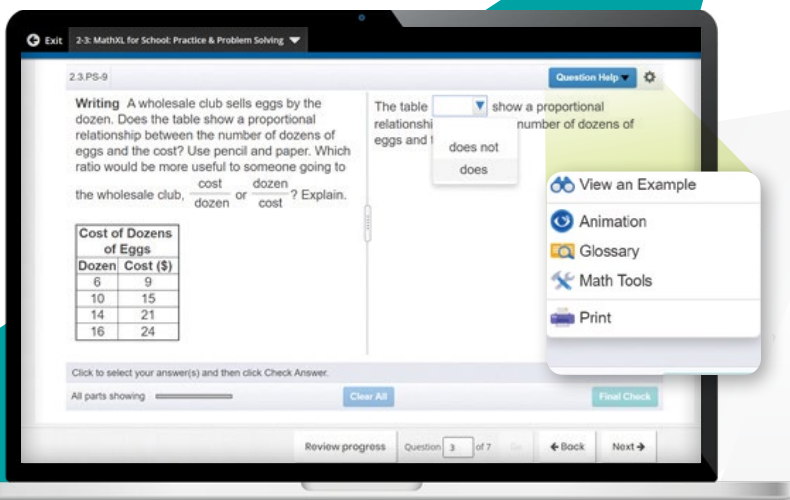
Instant feedback and learning aids help all students be successful.

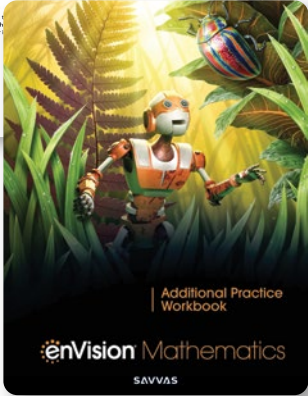
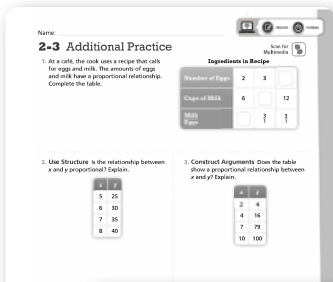
MathXL® for School: Practice & Problem Solving

Students are engaged as they practice and apply math ideas.

MathXL® for School: Enrichment

Students select tools to personalize their learning.

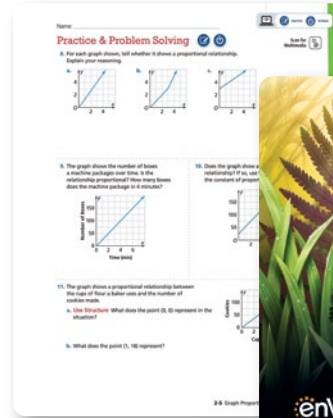




Additional Practice

- Leveling allows teachers to personalize skill and problem-solving.
- Reinforce vocabulary and higher-order thinking.
- MathXL® for School practice provides dynamic support for homework. Autoscored.
- Print workbook and online Interactive Realize Reader™ formats.

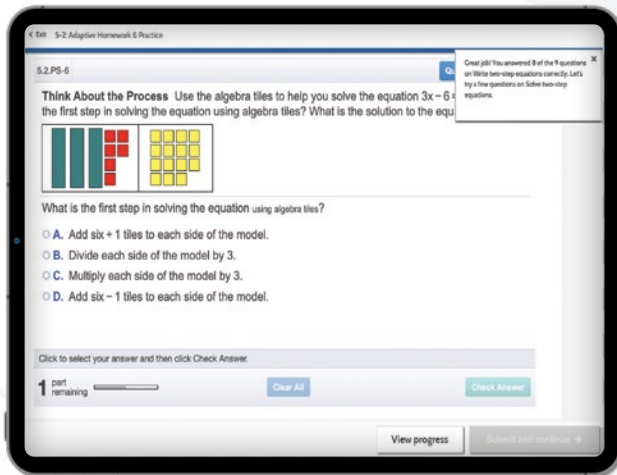
Available in Spanish.



Georgia Student Companion

(Print and online Interactive Realize Reader)

Additional lessons to ensure coverage of the Georgia Mathematics Standards.



Savvy Adaptive Practice

- Personalized practice in real time focuses on key concepts for each lesson.
- A brand new, transparent engine informs students when and why they are receiving specific practice items or instructional support resources.
- Students dial back into prerequisite concepts or accelerate forward as they practice.



Virtual Nerd® Tutorial Videos

- Dynamic Whiteboard™ feature allows students to see diagrams and all the steps.
- Approachable explanations delivered by on-screen instructors.
- Available for every lesson.



BouncePages

Launch Virtual Nerd videos from the student page with BouncePages.SavvasRealize.com.

PERSONALIZE LEARNING

Academic Vocabulary Activity

Students preview and demonstrate understanding of academic language through an online activity that supports each vocabulary word. Complete the vocabulary routines as a class or in partner activities.

Vocabulary Routine

Listening: Read the word and definitions.

Speaking: Recite the word and definition orally.

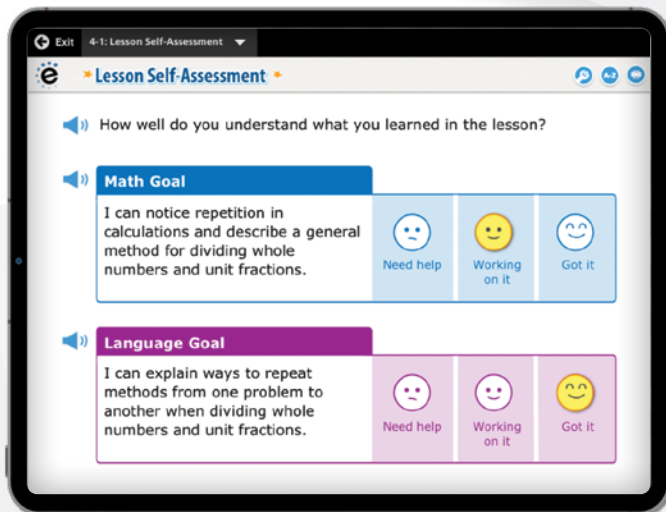
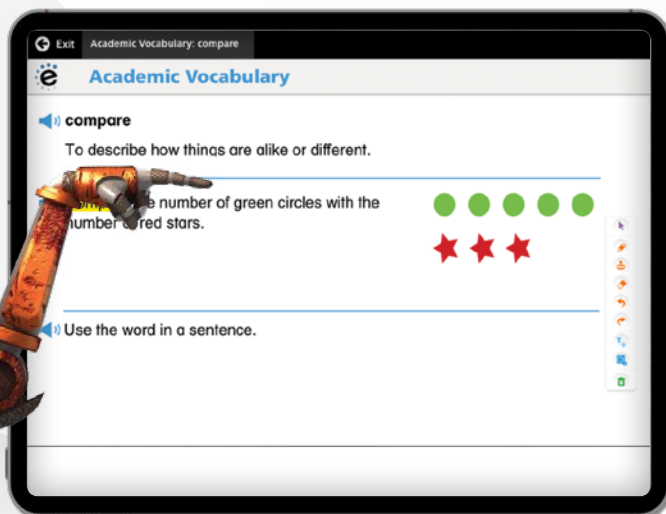
Reading: Read the sample instruction and then discuss and record your responses.

Writing: Write a sentence using the word.

Language Development for All Students

Language Support Handbook provides Topic and lesson instructional support that promotes language development. Includes teaching support for academic vocabulary and more!

Focus
on Math and
Language
Development



Lesson Self-Assessment

An exit ticket encourages students to reflect on their understanding of the language and the math goals of the lesson.

Assess to Differentiate

The *enVision*[®] Mathematics Georgia Assessment Suite offers options to move students toward mastery while driving instructional differentiation.

Review What You Know!

Vocabulary

Choose the best term from the box to complete each sentence.

- The quantities x and y in the ratio $\frac{x}{y}$ are called _____.
 - $\frac{2 \text{ dogs}}{3 \text{ cats}}$ and $\frac{10 \text{ dogs}}{15 \text{ cats}}$ are an example of _____.
- A(n) _____ is a _____ with different units.

DIAGNOSTIC Assessment

- Readiness Assessment (Print/Online)
- Topic Readiness Assessment
- Diagnostic Test (Math Diagnosis and Intervention System)
- Review What You Know (Topic Level)

FORMATIVE Assessment



- Try It! and Convince Me!
- Do You Understand?/Do you Know How?
- Lesson Quiz (Print/Online)

KEY CONCEPT

Two quantities x and y have a proportional relationship if all the ratios $\frac{y}{x}$ for related pairs of x and y are equivalent.

A proportion is an equation that states that two ratios are equivalent.

x	y	$\frac{y}{x}$
120	3	$\frac{3}{120} = 0.025$
200	5	$\frac{5}{200} = 0.025$

$\frac{3}{120} = \frac{5}{200}$

Do You Understand?

1. **Equivalent Ratios** How are proportional quantities described by equivalent ratios?

Do You Know How?

4. Use the table below. Do x and y have a proportional relationship? Explain.

Try It!

Miles records the time it takes to download a variety of file types. How is the download time related to the file size? Explain.

The ratios for each pair of data are _____, so the download time and the file size are _____.

Convince Me! How can you show that two quantities have a proportional relationship?

Type of Media	File Size (MB)	Download Time (s)	Download Time per File Size
Document	1.25	25	$\frac{25}{1.25} = 20$
Song	3.6	72	$\frac{72}{3.6} = 20$
Video	6.25	125	$\frac{125}{6.25} = 20$

Exit Topic 2 Performance Task

The graph shows the number of quarts picked and the amount of money the customer paid.

Part A

What is the constant of proportionality, and what does it mean in this situation?

Review progress Question 2 of 5 Back Next

SUMMATIVE Assessment

- Topic Assessments, Form A and Form B (Print/Online)
- Topic Performance Assessments, Form A and Form B (Print/Online)
- ExamView[®] Test Generator
- Fluency Assessments
- Cumulative/Benchmark Assessments (Print/Online)
- Progress Monitoring Assessments (Forms A, B, and C; Print/Online)

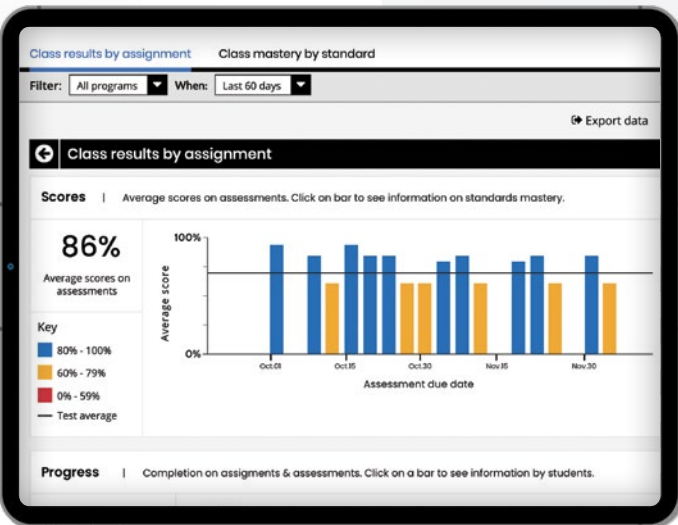
Gain Meaningful Insight

A variety of auto-generated reports show standards mastery on assessments, overall progress, and usage data. It's all on SavvasRealize.com.

Data reports help drive differentiation.

Savvas Math Screener and Diagnostic Assessments (MSDA)

Add the MSDA to your *enVision*® program via the Savvas Realize™ platform and collect actionable data to inform instruction for Grades K-8.



Data Overview

Reports including scores, progress, and usage are provided in an easy-to-view format.

7th Grade Math | Topic 2 Online Assessment | 67% Avg Score | Due Sept 10

Standard Analysis | Show score as Points | Sort Standards by Class Performance High to Low

Standard (1-6) of 6	7.RP.A.1	7.RP.A.2.a	7.RP.A.2.b	7.RP.A.2.c	7.RP.A.2.d
Class Performance	100%	95%	80%	65%	60%
Student Name	Score				
Barnes, Adele	7/10	✓	✗	✓	✓
Burke, Chester	5/10	✓	✓	✗	✗
Coleman, Marie	10/10	✓	✓	✓	✓
Grace, Jackson	8/10	✓	✗	✓	✓
Josephine, Maxwell	6/10	✓	✓	✓	✗
Marshall, Duane	5/10	✓	✓	✗	✓
Scott, Sophie	6/10	✓	✓	✗	✗
Shane, Marton	7/10	✓	✓	✓	✗

Standards Analysis

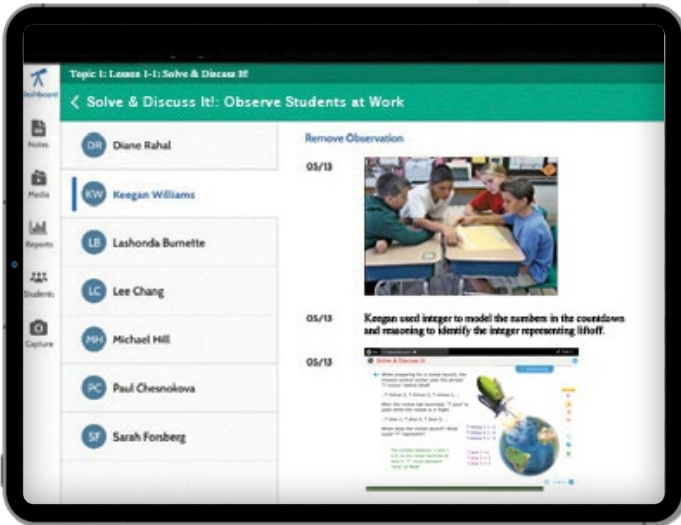
In-depth information is provided about student assignments and content mastery.

Skill and remediation activities

Apply Distance to Geometry	2-6: Ex 3: Apply Distance to Geometry & Try It!	Assign
Define Integers and Opposites	2-1: Ex 1: Define Integers and Opposites & Try It!	Assign
Find Absolute Value	2-3: Ex 2: Find Absolute Value	Assign
Find the Perimeter of an Irregular Polygon	2-6: Ex 2: Find the Perimeter of an Irregular Polygon & Try It!	Assign

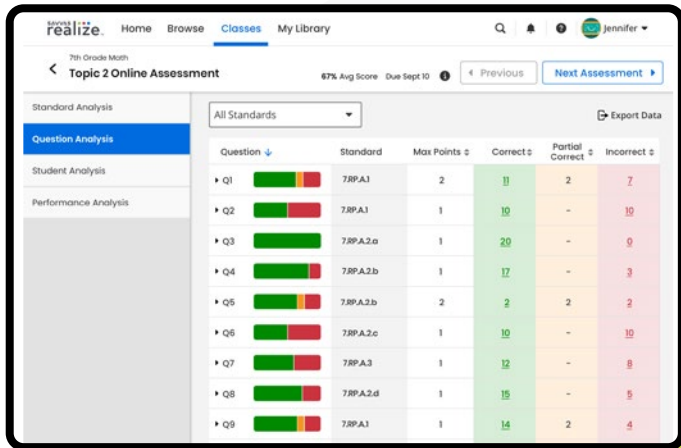
Auto-Assign Differentiation

Differentiation is based on results of the online Lesson Quiz, Topic Readiness Assessment, Topic Assessment, and Cumulative/Benchmark Assessment.



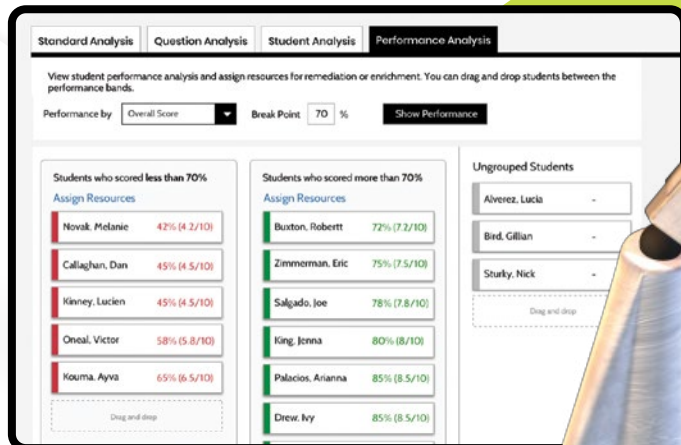
Savvas Realize™ Scout Observational Assessment Tool

Record observations and pictures of student work to support formative assessment.



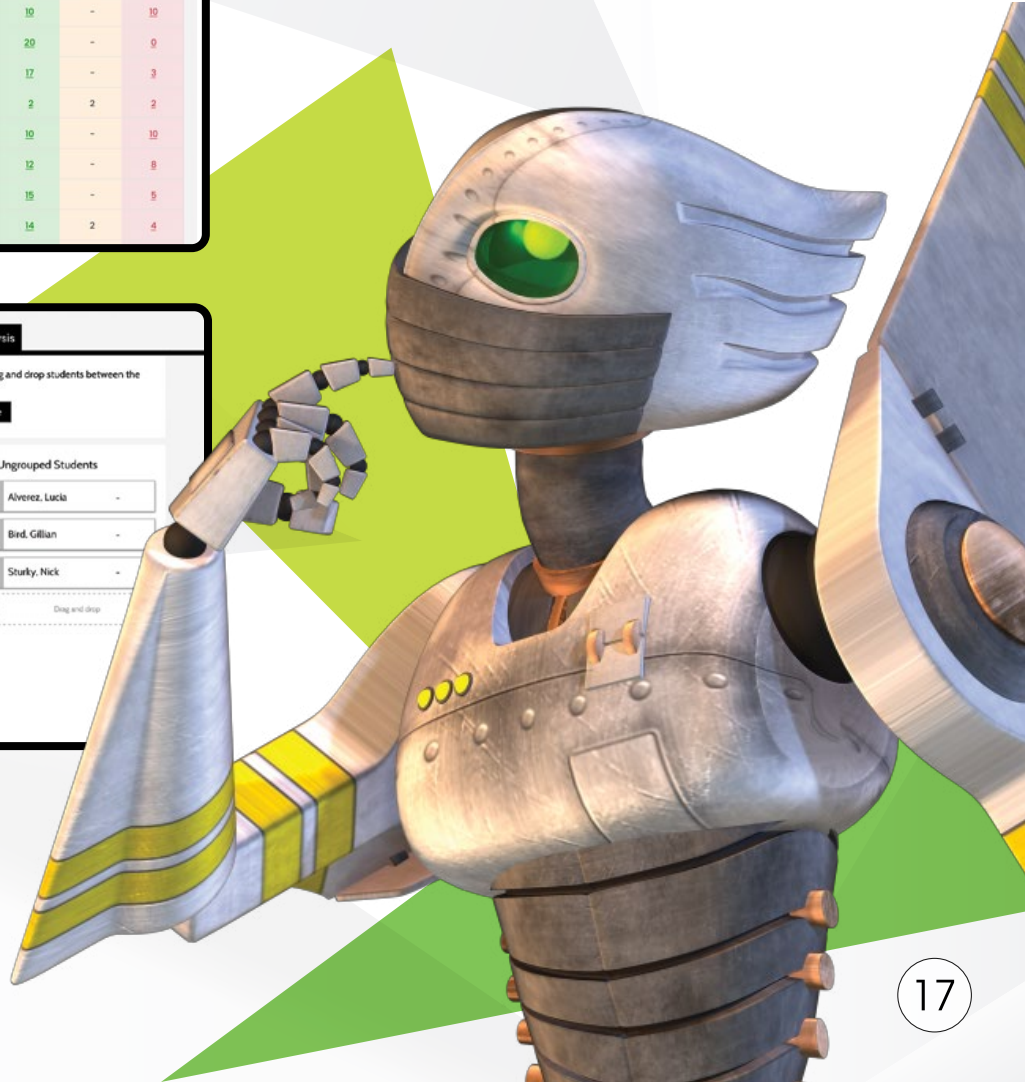
Question Analysis

Analyze the results to identify misconceptions stemming from individual questions. See trends across student data and drill down into individual performance.



Performance Analysis

Easily group students based on their performance on an assessment and assign targeted resources.



Focus on Each Learner

Differentiation options for each lesson encourage and challenge students of all learning levels.



TARGETED INTERVENTION As needed **ANYTIME**

I INTERVENTION **O ON-LEVEL** **A ADVANCED**

Differentiation Library

Name _____

Additional Vocabulary Support **2-3**

Use each of these words once to complete the sentences.

equivalent equivalent ratios proportional proportional relationship

- The fraction $\frac{1}{4}$ is _____ to the decimal 0.25.
- Each egg carton holds 12 eggs. The number of eggs is _____ to the number of egg cartons.
- Because $\frac{45 \text{ dogs}}{15 \text{ cats}}$ and $\frac{15 \text{ dogs}}{5 \text{ cats}}$ are both equivalent to $\frac{3 \text{ dogs}}{1 \text{ cat}}$, the number of dogs and the number of cats are in a _____.
- The ratios $\frac{1}{10}$ and $\frac{1}{4}$ are examples of _____.

In each table, shade the row that contains the information you can use to determine whether the relationship between the quantities is proportional. Then circle *proportional* or *not proportional*.

Name _____

Build Mathematical Literacy **2-3**

Read the problem below. Then answer the questions to understand the problem.

The table below gives the prices of rose corsages at John's Flower Shop. Is there a proportional relationship between the number of roses in a corsage and the price of the corsage?

Number of Roses	Price (\$)
1	5
2	10
3	15
4	20

- Underline the question that you need to answer.
- What is a proportional relationship between two quantities?

Additional Vocabulary Activities **I O**

Support for ELL students builds mathematical understanding.

Build Math Literacy **I O**

Reading support helps students read and understand examples from the lessons.

Name _____

Reteach to Build Understanding **2-3**

Two quantities have a proportional relationship if all of the ratios that relate the quantities are equivalent. This table shows a proportional relationship because all of the ratios $\frac{y}{x}$ are equivalent to 4.

x	2	4	5	6	7	10
y	8	16	20	24	28	40
$\frac{y}{x}$	$\frac{8}{2}=4$	$\frac{16}{4}=4$	$\frac{20}{5}=4$	$\frac{24}{6}=4$	$\frac{28}{7}=4$	$\frac{40}{10}=4$

Sophie records the total number of cans of cat food she uses after different numbers of days. She wants to know if the number of cans of cat food she uses is proportional to the number of days.

After 3 days – 6 cans
After 4 days – 8 cans
After 9 days – 18 cans

- Complete the table.

Number of Days (x)	3	4	9
Number of Cans (y)	6	8	18

Name: _____

2-3 Additional Practice

1. At a café, the cook uses a recipe that calls for eggs and milk. The amounts of eggs and milk have a proportional relationship. Complete the table.

Ingredients in Recipe	2	3	
Number of Eggs	6	9	
Cups of Milk	6	12	
Milk Cans		?	?

2. Use Structure: Is the relationship between x and y proportional? Explain.

x	y
5	25
6	30
7	35
8	40

3. Construct Arguments: Does the table show a proportional relationship between x and y ? Explain.

x	y
2	4
4	16
7	79
10	100

Reteach to Build Understanding **I**

Stepped-out, scaffolded support solidifies understanding with a fresh approach.

Additional Practice **O A**

Two pages of additional practice for every lesson. Available as print Workbook, online Math XL® for School, Interactive Realize Reader™, and editable Word® Doc.

Name _____ Pick a Project
Project 2A

Mammalian Marathon

There are over 7 million animal species in the world. Each species has an average running pace. The fastest mammal on Earth is the cheetah, which can run as fast as 69.5 miles per hour (mph). The slowest mammal on earth is the three-toed sloth, which creeps along at about 0.08 mph.

Humans race against each other and a wide variety of animals. Sometimes humans ride on animals, such as horses or camels, as they race toward a finish line. Other races involve a single type of animal (greyhounds, hamsters, or mice, for example) racing against each other.



Name _____ SEM Project
Page 2

An Essential Resource

Water Availability

Most of Earth is covered by water. Only a small portion of that water is fresh water that is useable for human survival. Complete this page to explore the quantity and distribution of fresh water on Earth. If you struggle with your research, try the following questions to get you started.

- Where is Earth's water?
- How much water is on Earth?
- What is the distribution of water on Earth?

Part A. Research different types of water sources and complete the table.

Salt Water	Fresh Water
Sources List the different types of sources of each type of water.	

PICK A PROJECT 2

What are some slow ones? Could predict who would win? Then time how long they took (in minutes). If you and these friends, who would win? Record a sports newscast formation you learned in class.

PROJECT 2A
Who do you think would win a race involving different types of animals?
PRODUCE: PRODUCE RACE RESULTS



PROJECT 2B
What would it be like to travel to another planet?
PRODUCE: CALCULATE THE WEIGHT OF YOUR PACK



enVision STEM Project

Did You Know?

There are more than 100 million million gallons of water on Earth.

Only a small percentage of all this water is fresh water... and much of that fresh water is locked up in ice and glaciers.




21% Water
89% Land

The United Nations says that each person needs about 60 liters of water each day. Each person in Africa has access to less than 20 liters of water each day. Many doctors recommend that each person drink eight 8-ounce glasses of water each day.

Each person in the United States uses on average about 100 gallons of water each day.

Your Task: An Essential Resource

Access to fresh, clean water is important for human survival. You and your classmates will determine how much fresh water is available on Earth for people to use. You will also explore ways in which people have developed access to clean water.

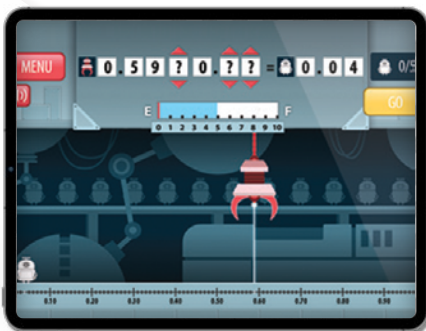


Pick a Project I O A

Student choice is supported through a variety of interesting activities students complete to demonstrate their understanding of math concepts.

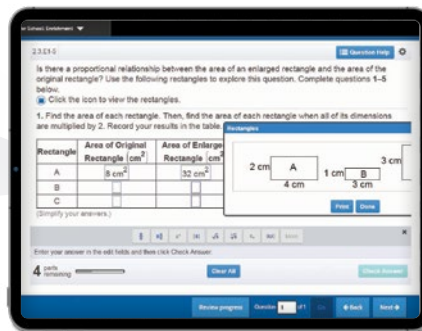
STEM Projects I O A

Social, economic, and environmental issues incorporate media and demonstrate the value of math in a variety of real situations.



Technology Center I O A

Math Tools and Math Games reinforce concepts, critical thinking, and application.



Enrichment O A

Higher-order thinking activities help students develop deeper understandings. Available as online PDFs and MathXL® for School formats.

PERSONALIZE LEARNING

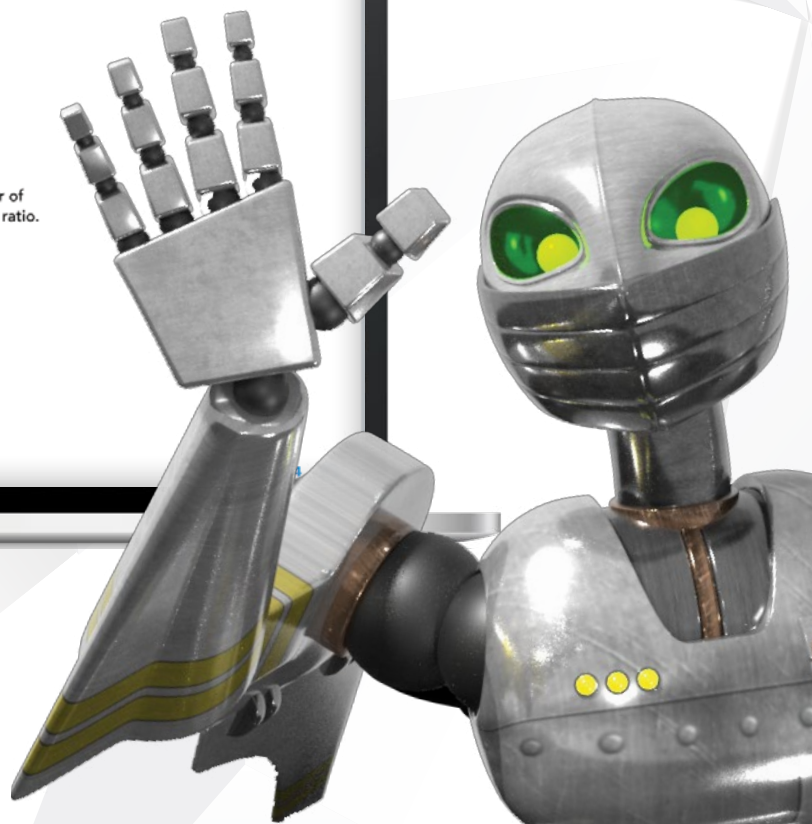
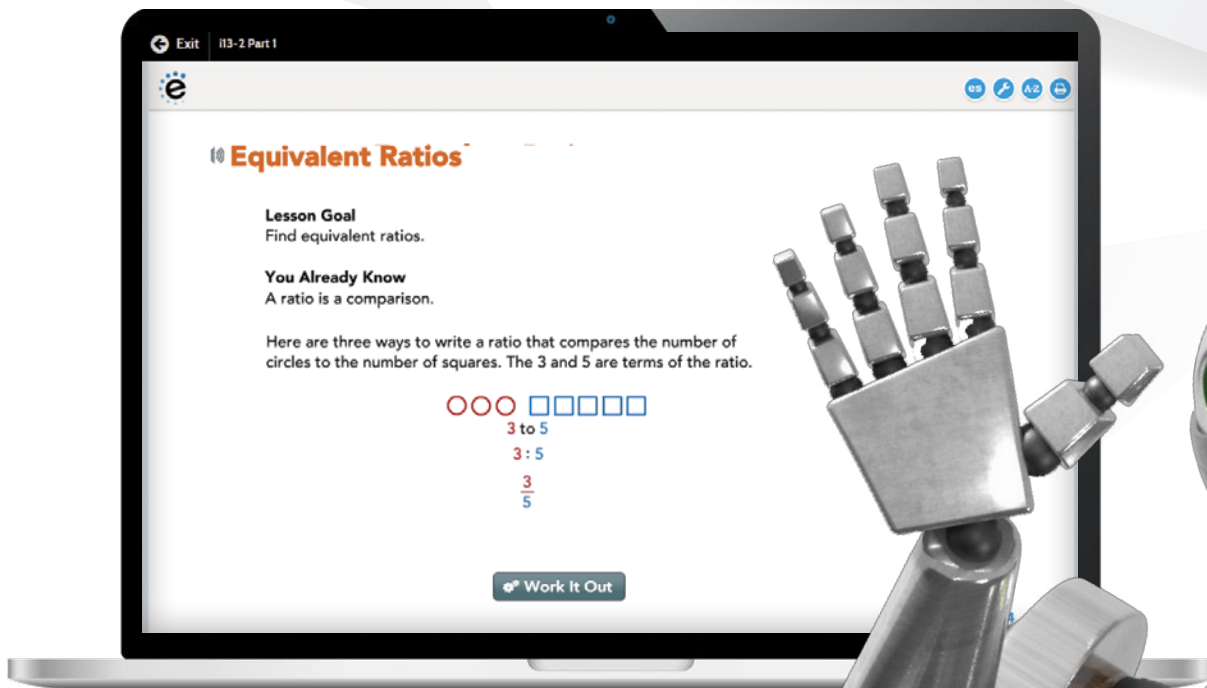


Accelerated Grade 6 and Accelerated Grade 7 program pathways are offered as well.

Complete print and digital accelerated program prepares students for Algebra in Grade 8.

Individualized study plan addresses skill gaps for each Topic.

- Topic Readiness Assessment screens every student's understanding of Topic prerequisite content.
- Each student is automatically assigned study plan lessons tailored just for him/her.
- Lessons include Reviews, Examples, and Practice to fill gaps and keep students on track.





TIER 3: Intensive Intervention System (MDIS)

Intervention Lesson **MP**

Equivalent Fractions

10. So, $\frac{2}{3}$ is equivalent to three $\frac{1}{3}$ strips. $\frac{2}{3} = \frac{2 \times 3}{3 \times 3} = \frac{2}{9}$

You can use division to find a fraction equivalent to $\frac{2}{3}$. To do this, divide the numerator and the denominator by the same number.

11. What number is the denominator of $\frac{2}{9}$ divided by to get 4? $\frac{2}{9} \div \frac{1}{4} = \frac{2 \times 4}{9 \times 4} = \frac{8}{36}$

12. Since the denominator was divided by 3, the numerator must also be divided by 3. For the quotient of $9 \div 3 = 3$ in the numerator of the second fraction above.

Divide the numerator and denominator of each fraction by the same number to find a fraction equivalent to each.

13. $\frac{2}{3} \div \frac{1}{3} = \frac{2 \times 3}{3 \times 3} = \frac{2}{9}$

14. $\frac{2}{3} \div \frac{1}{3} = \frac{2 \times 3}{3 \times 3} = \frac{2}{9}$

If the numerator and denominator cannot be divided by anything else, then the fraction is in simplest form.

15. Is $\frac{2}{9}$ in simplest form? Yes No

16. Is $\frac{2}{9}$ in simplest form? Yes No

Find each equivalent fraction.

17. $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$

18. $\frac{2}{3} = \frac{2 \times 3}{3 \times 3} = \frac{2}{9}$

19. $\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$

20. $\frac{2}{3} = \frac{2 \times 5}{3 \times 5} = \frac{10}{15}$

21. $\frac{2}{3} = \frac{2 \times 6}{3 \times 6} = \frac{4}{9}$

22. $\frac{2}{3} = \frac{2 \times 7}{3 \times 7} = \frac{14}{21}$

Write each fraction in simplest form.

23. $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$

24. $\frac{2}{3} = \frac{2 \times 3}{3 \times 3} = \frac{2}{9}$

25. $\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$

26. $\frac{2}{3} = \frac{2 \times 5}{3 \times 5} = \frac{10}{15}$

27. **Reasoning** Explain why $\frac{2}{3}$ is not in simplest form.

Intervention Lesson **MP**

Equivalent Fractions

Materials crayons or markers

1. Show $\frac{2}{3}$ by coloring 2 of the $\frac{1}{3}$ strips.

2. Color as many $\frac{1}{3}$ strips as it takes to cover the same region as the $\frac{2}{3}$.

How many $\frac{1}{3}$ strips did you color? $\frac{2}{3} = \frac{2 \times 3}{3 \times 3} = \frac{2}{9}$

3. So, $\frac{2}{3}$ is equivalent to four $\frac{1}{3}$ strips. $\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$

You can use multiplication to find a fraction equivalent to $\frac{2}{3}$. To do this, multiply the numerator and the denominator by the same number.

4. What number is the denominator of $\frac{2}{3}$ multiplied by to get 4? $\frac{2}{3} \times \frac{4}{4} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$

5. Since the denominator was multiplied by 2, the numerator must also be multiplied by 2. For the product of $2 \times 2 = 4$ in the numerator of the second fraction above.

Multiply the numerator and denominator of each fraction by the same number to find a fraction equivalent to each.

6. $\frac{2}{3} \times \frac{2}{2} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$

7. $\frac{2}{3} \times \frac{3}{3} = \frac{2 \times 3}{3 \times 3} = \frac{2}{9}$

8. Show $\frac{2}{3}$ by coloring 9 of the $\frac{1}{9}$ strips.

9. Color as many $\frac{1}{9}$ strips as it takes to cover the same region as $\frac{2}{3}$.

How many $\frac{1}{9}$ strips did you color? $\frac{2}{3} = \frac{2 \times 3}{3 \times 3} = \frac{2}{9}$

Intervention Lesson **MP**

EQUIVALENT FRACTIONS

Objective Students will find equivalent fractions.

Vocabulary Numerator, denominator

Materials Crayons or markers

1 Conceptual Development Use with Exercises 1-12.

In this lesson you will learn to find equivalent fractions. Review how to use fraction strips to identify equal fractions. How do the fraction strips for equal fractions compare? Exercises 1-3. Explain that students can use multiplication to find an equivalent fraction. To do this, multiply the numerator and the denominator by the same number. What do you multiply 3 by to get 4? What if you multiply the numerator 3 by 4? Have students complete Exercises 4-7. Their equations in students will divide the numerator and denominator by the same number to find an equivalent fraction. Students complete Exercises 8-12.

2 Practice Use with Exercises 13-27.

Discuss how to tell whether to multiply or divide to find an equivalent fraction. Explain that if the numerator in the new fraction is greater, then multiply. If it is less, then divide.

Error Intervention Students have difficulty finding equivalent fractions. Have them write the numerator and denominator.

If You Have More Time Have students write in an of the equivalent fractions by multiplying or dividing by the different numbers.

3 Assessment

In this lesson, students learned to find equivalent fractions. Use the **Quick Check** problem to assess student understanding.

Quick Check Write the equivalent fraction $\frac{2}{3} = \frac{2 \times 3}{3 \times 3} = \frac{2}{9}$

The *enVision*[®] Mathematics **Math Diagnosis and Intervention System (MDIS)** helps diagnose students' needs and provide effective intervention that's more intensive and individualized.

Math Diagnosis and Intervention System

enVision Mathematics 2024 Grade 7

Teacher Resources

Beginning of Topic

Math Diagnosis and Intervention System

Booklet K: Expressions, Equations, and Functions

Booklet L: Numbers and Operations

Booklet M: Fractions, Decimals, Ratios, and Proportionality

Booklet N: Measurement, Geometry, Data Analysis, and Probability

Teacher's Guide, Grades 6-8

Diagnostic Tests, Grades 5-8

Answer Keys, Grades 5-8

Search resources

Search

Filters

Standards

Browse by Category

- Activities
- Assessment
- Books / Readers
- Practice
- Presentations
- Program Resources
- Teacher Support
- Video / Audio

Featured Resources

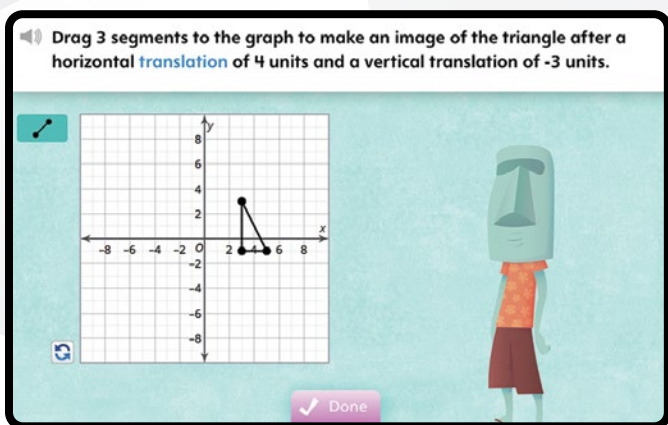
- Family Engagement Support
- STEM
- Mathematical Modeling in 3-Acts

- **Diagnostics** Use the diagnostic tests in the system. Also, use the item analysis charts given with program assessments at the start of a grade or Topic, or at the end of a Topic, group of Topics, or the year.
- **Intervention Lessons** These two-page lessons include guided instruction followed by practice. Teachers can assign lessons that are below grade level if needed.
- **Teacher Support** Teacher Notes provide the support needed to conduct a short lesson. The lesson focuses on vocabulary, concept development, and practice.
- **Teacher Guide** This guide contains individual and class record forms and correlations to Student Edition lessons.

Looking for an Adaptive and Intensive Intervention Solution?

SuccessMaker® Math is a confidence maker—proven to improve students' mathematics performance.

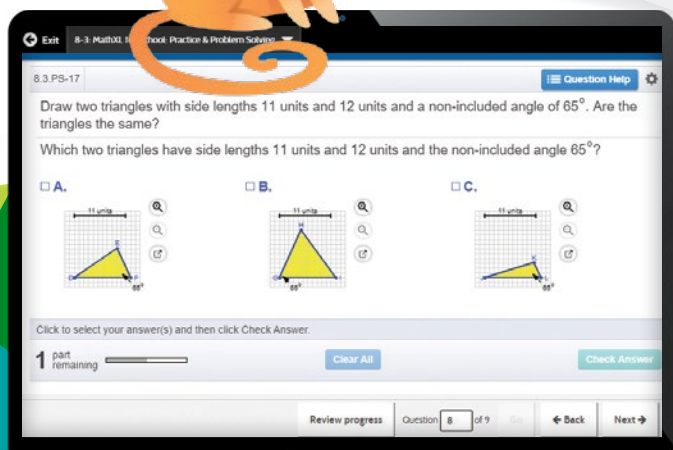
successmaker®
MATHEMATICS



TIER 3
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SuccessMaker calibrates with every question:

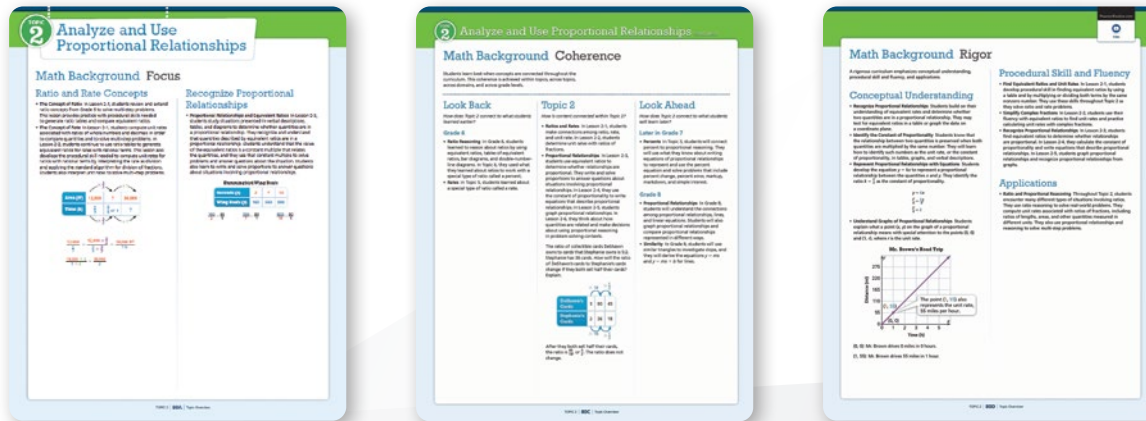
- Uses direct connections from *enVision*® Mathematics.
- Available in 60+ languages.
- Identifies specific Topics in *enVision* Mathematics for remediation.
- Teachers have the flexibility to use a range of *enVision* Mathematics resources at each level.
- Helps get learners back to grade level if struggling, or ahead if advanced.
- Continuously adaptive so students get exactly the right content at exactly the right time to close learning gaps.



ESSA
"Strong"
Evidence-Based
Intervention

See the Big Picture

Gain a new perspective on your teaching with embedded strategies, methods, and a wide range of Professional Learning opportunities in print & digital formats.



Ideas, inspiration, and teaching methods.

Math background for every Topic and Lesson serves as an easy-to-access math methods course.

Make every lesson perfect for you.

Access all digital content, assessments, and management tools at SavvasRealize.com.

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- Customize lessons
- Reorder lessons and Topics
- Align to your district framework
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- Add Google Drive™ files
- Integrate Microsoft® OneDrive®
- Integrate with Canvas® and Schoology®
- Upload your own content



Schoology



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Present with ease in the classroom.

Present and print answers and solutions for all the Try Its, Do You Know How?/Do You Understand, and Practice & Problem Solving problems throughout the program.

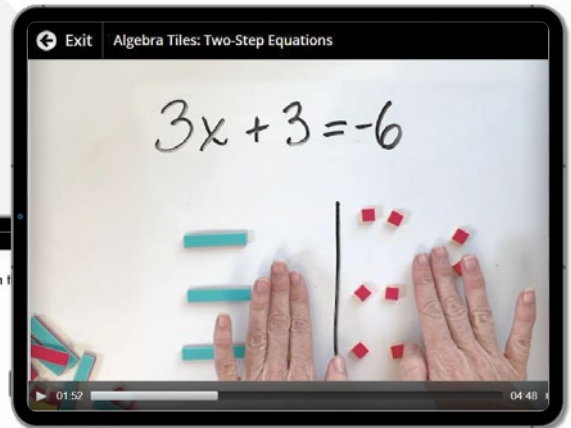
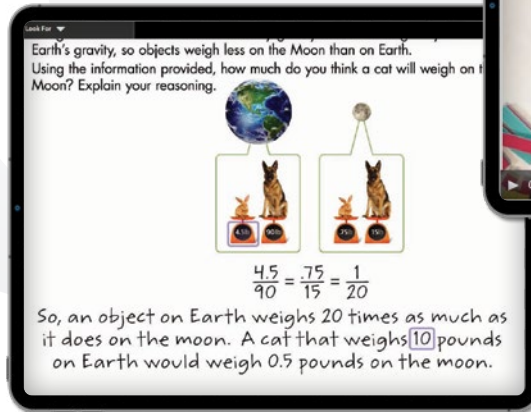


Managing Classes

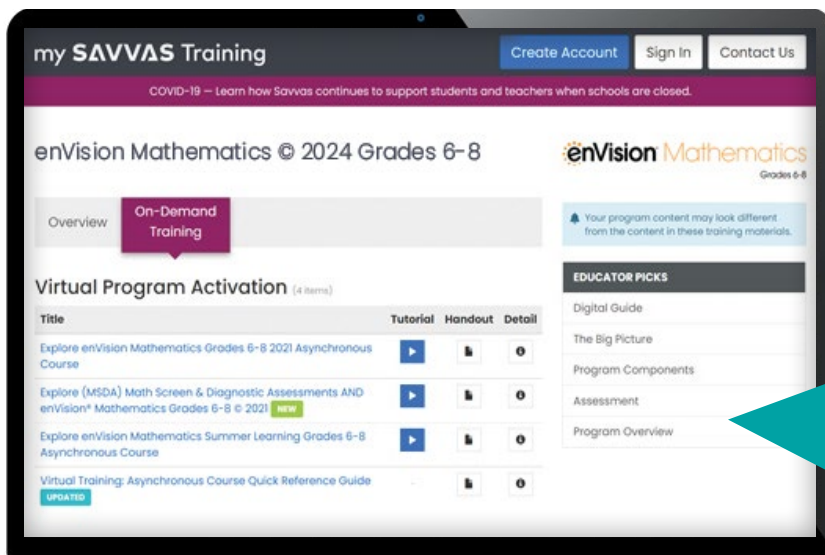


Classroom and Professional Learning on SavvasRealize.com give important perspectives on math concepts and show the program in action.

Listen and Look for Lesson Videos provide key details, models, and insights for highlighted lessons. Modeled learning offers valuable support.



Using Manipulatives Videos offer teacher tutorials and guidance to engage students in concrete modeling.



mySavvasTraining.com features many online tutorials and quick-start guides for *enVision Mathematics*. Available 24/7!

Seamless
Integration Makes
Everything
Easier

Support Math Learning at Home

Family Engagement materials provide teachers with easy-to-share tools that inform students' support networks. Compatibility with Google Translate™ allows for translation into more than 100 languages!

Name _____

Date _____


Family Engagement
Letter

Dear Family,

Your child's login on SavvasRealize.com contains family resources you can use to help your child succeed in mathematics and to help you better understand the organization of **enVision® Mathematics**.

Look for an overview, benchmark explanations and examples, topic support, math help at home pages that include sample problems and home activities, visual learning, games, videos, and so much more.

Sincerely,



Family Engagement Letter

Families are provided with an overview of the Family Engagement resources available on SavvasRealize.com.


TOPIC 1

Use Rational Number Operations

In this topic, your student will extend what they know about operations with integers to expressions with negative fractions and decimals. Your student will also write and evaluate expressions with whole-number exponents and apply the Laws of Exponents.

CONNECT THE MATH

Operations with fractions and decimals are common in many daily activities, especially in measurement. Recipes and nutritional information on food packaging often use fractions, as do many tools including wrenches and screws. Decimals are not only used in financial transactions, but the odometer and radio in a car often use displays with decimals. The play bar on videos can show hours, minutes, and seconds which are another opportunity to talk about parts of a whole and the amount of time elapsed or remaining. Look for opportunities to point out fractions, mixed numbers, and decimals in your daily routines and talk about what actions would represent thinking about a number as a negative amount.



Topic Support

The Topic overview gives families a preview of upcoming content with visuals to support understanding.

LESSON 1-1

Write Rational Numbers in Equivalent Forms

Rational numbers expressed as fractions can be written as decimals by dividing the numerator by the denominator.

LESSON OBJECTIVES

- Identify rational numbers
- Convert rational numbers expressed as fractions to terminating or repeating decimals

HOW CAN YOU HELP WITH HOMEWORK

Review Lesson Content

Watch and share these video tutorials with your student:

- How do you turn a fraction into a terminating decimal?
- What's a rational number?

Review Key Vocabulary

Review key vocabulary from this lesson in your student's glossary:

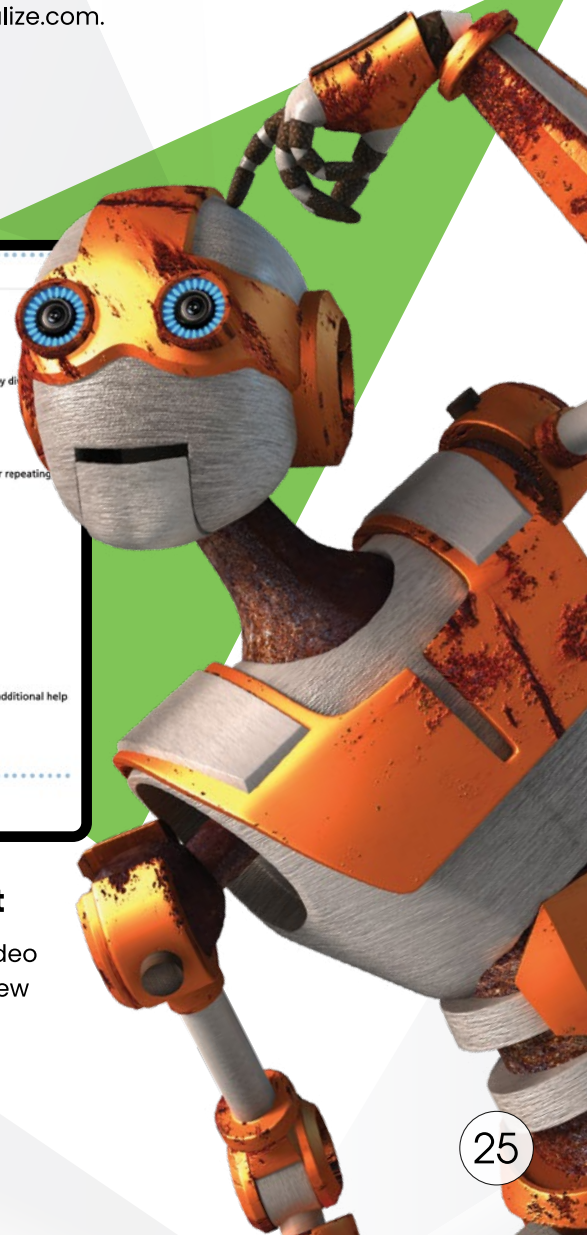
- repeating decimal
- terminating decimal

You can use the search terms and phrases to help your student find additional help online:

- write fractions in decimal form
- write decimals as mixed numbers

Lesson-Level Support

Families are provided with video tutorials and vocabulary review that support standards.



Comprehensive Resources

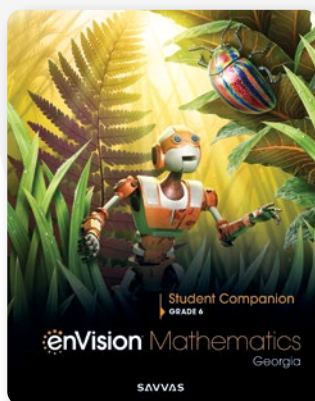
Teach using multiple modalities and tiers. All resources support state standards and assessments. You don't have to look anywhere else!



Student Edition 2 Volumes*

(Print and online Interactive Realize Reader)

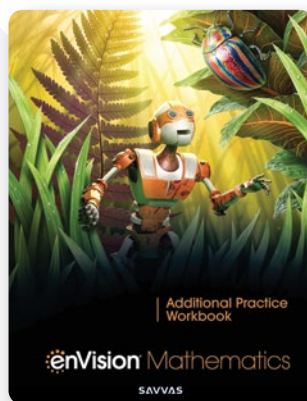
The interactive text increases engagement and deepens understanding of math ideas.—to solve problems and make it their own.



Georgia Student Companion

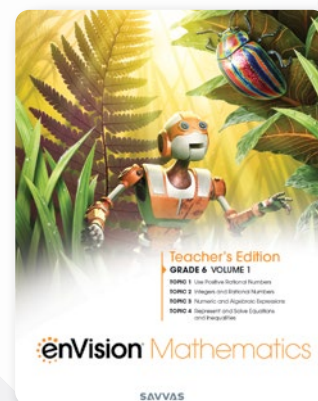
(Print and online Interactive Realize Reader)

Additional lessons to ensure coverage of the Georgia Mathematics Standards.



Additional Practice Workbook

The student workbook includes two pages of additional practice for each lesson. Math XL® for School online offers instant feedback and personalized learning.



Teacher's Edition 2 Volumes

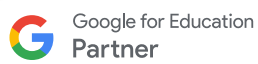
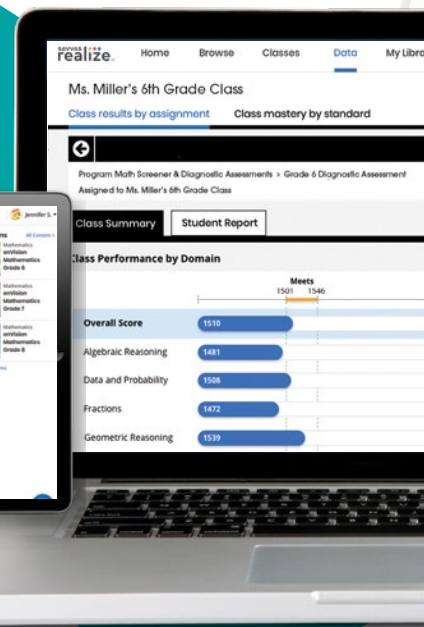
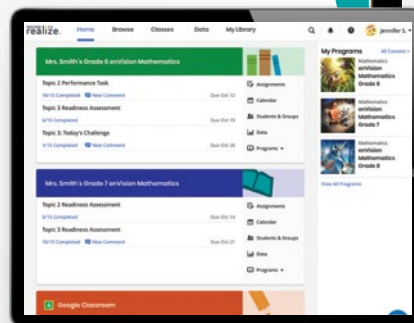
(Print and online Realize Reader)

Topics and lessons align to standards and balance instructional focus, coherence, and rigor. Embedded math background and professional development.

Savvas Realize™

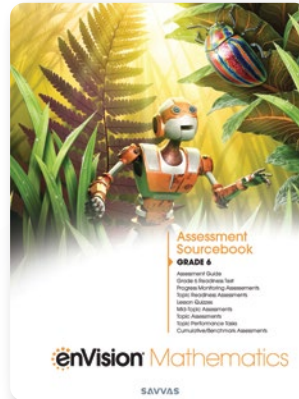
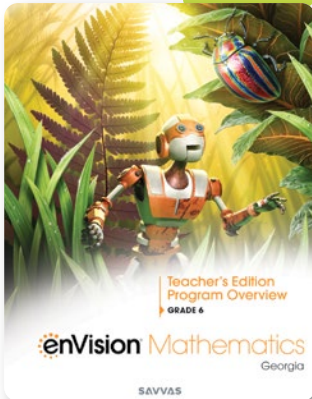
All resources for the program are available on **SavvasRealize.com**. Easy-to-navigate content aligns to the standards and is fully customizable.

All English and Spanish assets are provided in one course, so teachers and students do not have to toggle between multiple locations.



**Learn More!
Teacher's
Edition Program
Overview**

**Available in Spanish enVision Matemáticas.*



Georgia Teacher's Edition Program Overview

(Print and online PDFs)

A user's guide and Georgia resource in one! Includes: Georgia Table of Contents, Georgia Correlations, and Instruction for Georgia-specific Lessons.

Teacher's Resource Masters*, 2 Volumes

(Print, online PDF, and editable Word doc formats)

- Home-School Connection Letters
- Reteach to Build Understanding
- Pick a Project
- enVision® STEM Project
- Additional Vocabulary Support
- Build Mathematical Literacy
- Enrichment

Assessment Sourcebook*

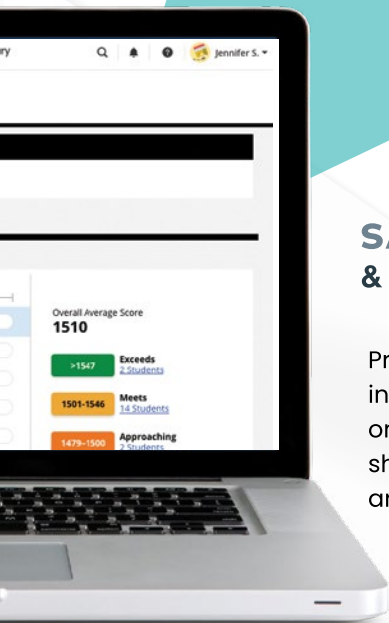
(Print and online PDFs and editable Word doc formats)

- Readiness Test Masters
- Topic Performance Task Masters
- Lesson Quizzes
- Mid-Topic Assessments
- Topic Assessments
- Cumulative/Benchmark Assessment Masters
- Progress Monitoring Assessment Masters

Language Support Handbook

(Print and online PDFs)

Topic and lesson-specific instructional support promotes language development.



SAVVAS math Screener & Diagnostic Assessments

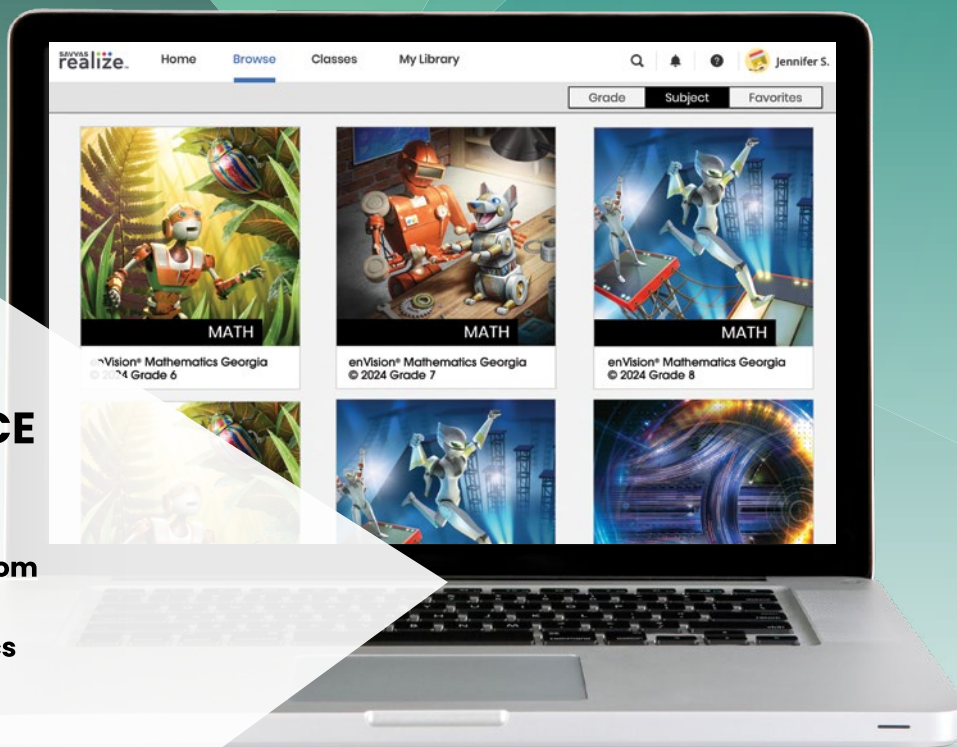
Provides new targeted instructional resources based on actionable data that shows student strengths and areas for improvement.



Georgia Teacher Edition Snap-In Tabs

Provide alignment for the Georgia Mathematics Standards that can be inserted right in the Teacher's Edition for instant reference.

enVision[®] Mathematics Georgia



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