

SAVVAS

West Virginia  
Program Overview  
Grades 6-8

**enVision**® Mathematics  
West Virginia

Kids See the Math. Teachers See Results.



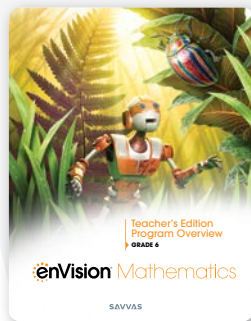
# Made for West Virginia!

Teach using resources that support 100% of the West Virginia College- and Career-Readiness Standards. You don't have to look anywhere else!



## West Virginia Digital Courseware on Savvas Realize®

All *enVision Mathematics West Virginia* resources 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. Now integrates with Schoology®, Canvas® and Google™ Learning Management Systems.



## West Virginia Teacher Resources

*(Online)*  
Explore pacing, West Virginia-specific Table of Contents, and West Virginia Correlations.



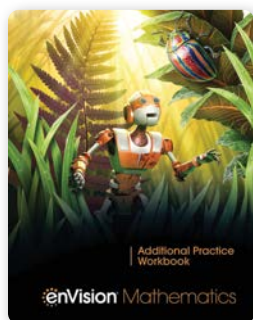
## Student Edition, 2 Volumes\*

*(Print and online interactive Realize Reader™)*  
The interactive text increases engagement and deepens understanding of math ideas. Students explain their thinking, solve problems, and make it their own.



## West Virginia Lessons

*(Online)*  
Discover West Virginia-specific lessons and instruction in the digital Table of Contents at point of use.



## Additional Practice Workbook\*

*(Print, online Interactive Realize Reader, editable Word® doc)*  
The student workbook includes two pages of additional practice for Student Edition lessons. Online MathXL® for School: Additional Practice offers instant feedback and personalized learning.



## Language Support Handbook

*(Print and online PDFs)*  
Topic and lesson specific instructional support promotes language development.

\*Available in Spanish, *enVision Matemáticas*.



### Teacher's Edition, 2 Volumes

(Print and online Realize Reader)

Topics and lessons align to standards and balance instructional focus, coherence, and rigor. Includes embedded math background and professional development provides WV teachers with meaningful support.

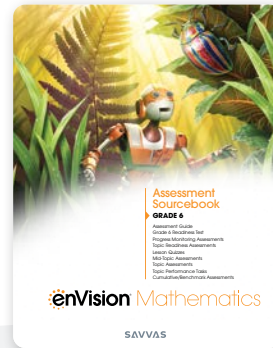


### Teacher's Resource Masters, 2 Volumes\*

(Print, online PDF, and

editable Word doc)

- Reteach to Build Understanding
- Additional Vocabulary Support
- Build Mathematical Literacy
- Enrichment
- *enVision* STEM Project
- Pick a Project



### Assessment Sourcebook

(Print and online PDFs  
and editable Word doc)

- Readiness Tests
- Topic Assessments and Performance Tasks
- Lesson Quizzes
- Mid-Topic Assessments
- Cumulative Assessments
- Progress Monitoring Assessments

SAVVAS  
**Momentum**  
ASSESSMENT SUITE

### Math Screener & Diagnostic Assessments

This award-winning, K-8 assessment tool identifies learning gaps, diagnoses student needs, and offers personalized math content all on SavvasRealize.com.

### New! Math Screener & Diagnostic Assessments + Growth

Get a complete picture of student performance with additional beginning, middle-, and end-of-year Diagnostic Growth Assessments, which are easily administered via Savvas Realize®.



You're going to love what you see. *enVision<sup>®</sup> Mathematics West Virginia* © 2025 for Grades 6–8 helps develop deep conceptual understanding, personalize learning, and use student data to inform instruction.

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.



# 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.

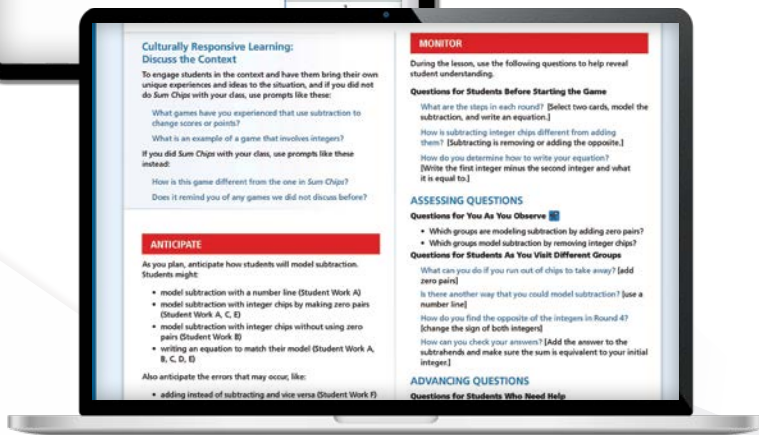
Use with  
New Program  
Manipulatives!



## 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 **student growth**.



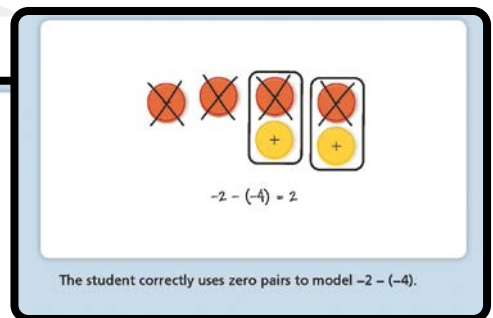
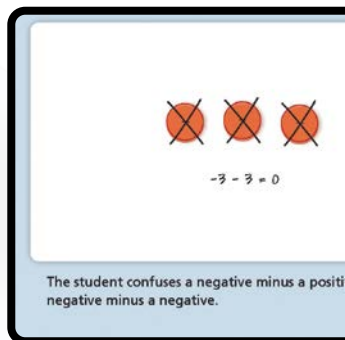
## Using the 5 Practices

Find teaching support based on the *5 Practices for Orchestrating Productive Mathematics Discussions* (Smith and Stein).

- **Anticipate** students' solution strategies.
- **Monitor** students' solutions.
- **Select** solutions for students to present.
- **Sequence** solutions that students will present.
- **Connect** students' strategies and connect to key ideas.

## Anticipate Needs

- Prompts teachers to consider different ways students may approach the task.
- Prepares teachers for assessing and advancing questions.
- Provides different student response examples.



Student work examples

## UNDERSTANDING

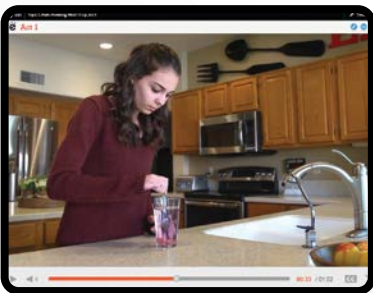
# See What They Can Do

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

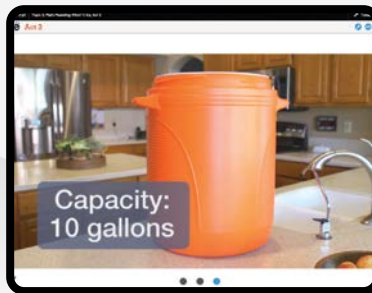
Build students' confidence to think mathematically and solve problems on their own.

#### ACT 1: THE HOOK



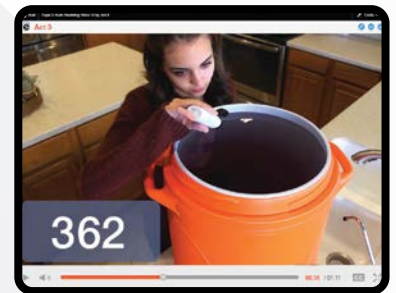
*A video or photo hooks students with the task and provokes questions.*

#### ACT 2: THE MODEL



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

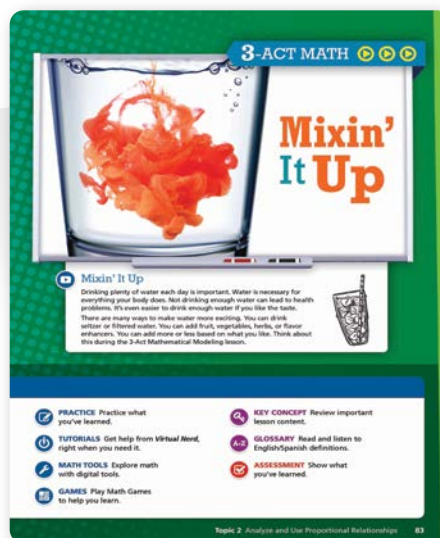
#### ACT 3: THE RESOLUTION



*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.



**3-ACT MATH**

### Mixin' It Up

Drinking plenty of water each day is important. Water is necessary for everything your body does. Not drinking enough water can lead to health problems. It's even easier to drink enough water if you like the taste. There are many ways to make water more exciting. You can drink still or filtered water. You can add fruit, vegetables, herbs, or flavor enhancers. You can add more or less based on what you like. Think about this during the 3-Act Mathematical Modeling lesson.

**PRACTICE** Practice what you've learned.

**TUTORIALS** Get help from Virtual Nerd, right when you need it.

**MATH TOOLS** Explore math with digital tools.

**GAMES** Play Math Games to help you learn.

**KEY CONCEPT** Review important lesson content.

**GLOSSARY** Read and listen to English/Spanish definitions.

**ASSESSMENT** Show what you've learned.

Topic 2: Analyze and Use Proportional Relationships



**TOPIC 2 Topic Opener**

### Analyze and Use Proportional Relationships

**2 ANALYZE AND USE PROPORTIONAL RELATIONSHIPS**

**3-ACT MATH**

**Topic Essential Question**

How can you recognize and represent proportional relationships and use them to solve problems?

Read the Topic Essential Question throughout the topic. See the Teacher's Edition for the Topic Review for notes about answering the question.

**3-Act Mathematical Modeling**

How do students use about the Mathematical Modeling lesson for this topic? You can use the preview for this lesson to get students interested in learning the content of this topic. The Mathematical Modeling in 3-Act lessons appears after Lesson 2.4.

Topic 2: 82-83 Topic Opener

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

Student  
Choice,  
Differentiation,  
Open-Ended  
Rich Tasks

**PICK A PROJECT** **2**

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

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

Topic 2: Pick a Project

**PROJECT 2C**  
What stories can you tell?  
PROJECT: WRITE A SHORT STORY


Topic 2: Pick a Project

**PROJECT 2D**  
If you could play any musical instrument, what would you play? Why?  
PROJECT: PLAY MUSIC

Topic 2: Pick a Project

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 (mi/h). The slowest mammal on earth is the three-toed sloth, which creeps along at about 0.08 mi/h. 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.



**Your Project Predict Race Results**  
What are some fast animals you can think of? What are some slow ones? How fast can you run? Think about how you could predict who would win a race.  
Research the speed of at least four different animals. Then time how long it takes you to run  $\frac{1}{2}$  mile (1 lap around a track). If you and three other types of animals ran a marathon at those speeds, who would win? How far into the race would the four other racers be when the winner crossed the finish line? Write a sports article or record a sports newscast to predict the outcome of this race. Use the information you learned in this topic to justify your predictions.

Name \_\_\_\_\_ **Pick a Project Project 2D**

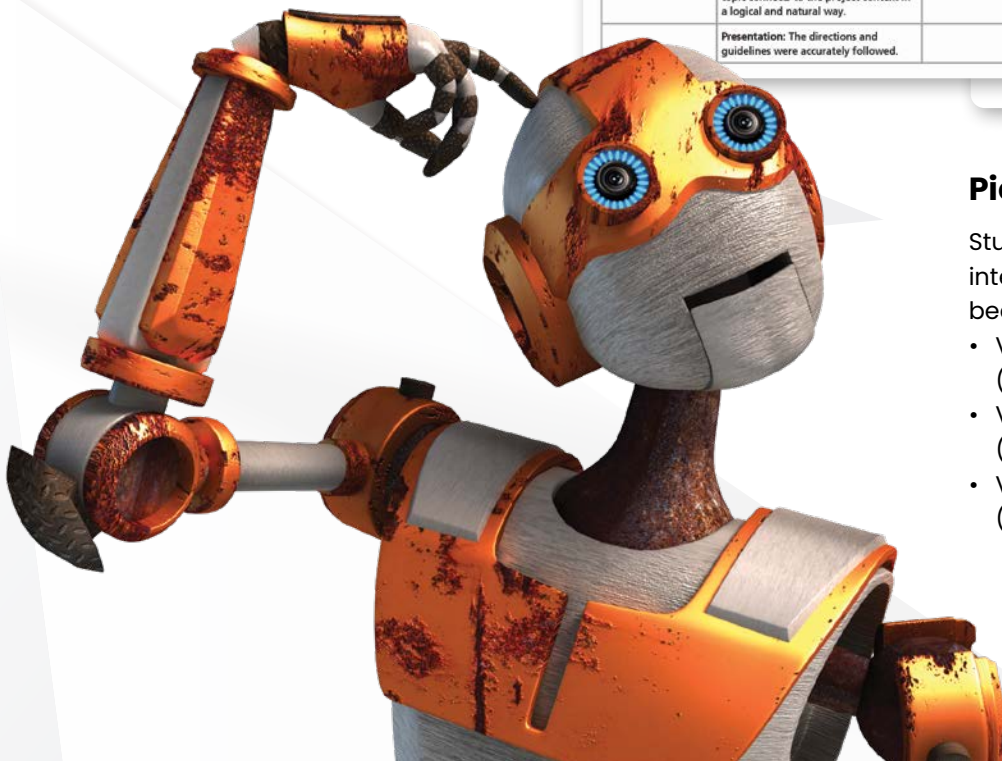
**Sounds of Music**  
The size of an instrument determines the range of pitches it can produce. A guitar produces lower pitches than a violin, and a cello produces lower pitches than a guitar.  
There are other ways to control the sound an instrument produces, however. Where you press a guitar string affects the pitch of the string when you pluck it—pressing halfway along the string produces a pitch an octave higher than pressing the top of the string. How a piano is tuned affects the pitch of a string when you play a note.

**Your Project Play Music**  
Research how composers and musicians use ratios and proportions in music. Find or compose a piece of music and identify three ratios between notes. Make a video of yourself playing the piece of music. In your video, include a segment in which you explain how the changes in pitch are proportionally related.



**Sample Scoring Rubric**

Below Expectations (0-1 point: Explain.)	Meets Goal (2 points)	Above Expectations (3-4 points: Explain.)
	<b>Mathematics:</b> The project accurately demonstrates understanding of a key mathematical concept from the topic.	
	<b>Context:</b> The mathematics from the topic connects to the project context in a logical and natural way.	
	<b>Presentation:</b> The directions and guidelines were accurately followed.	

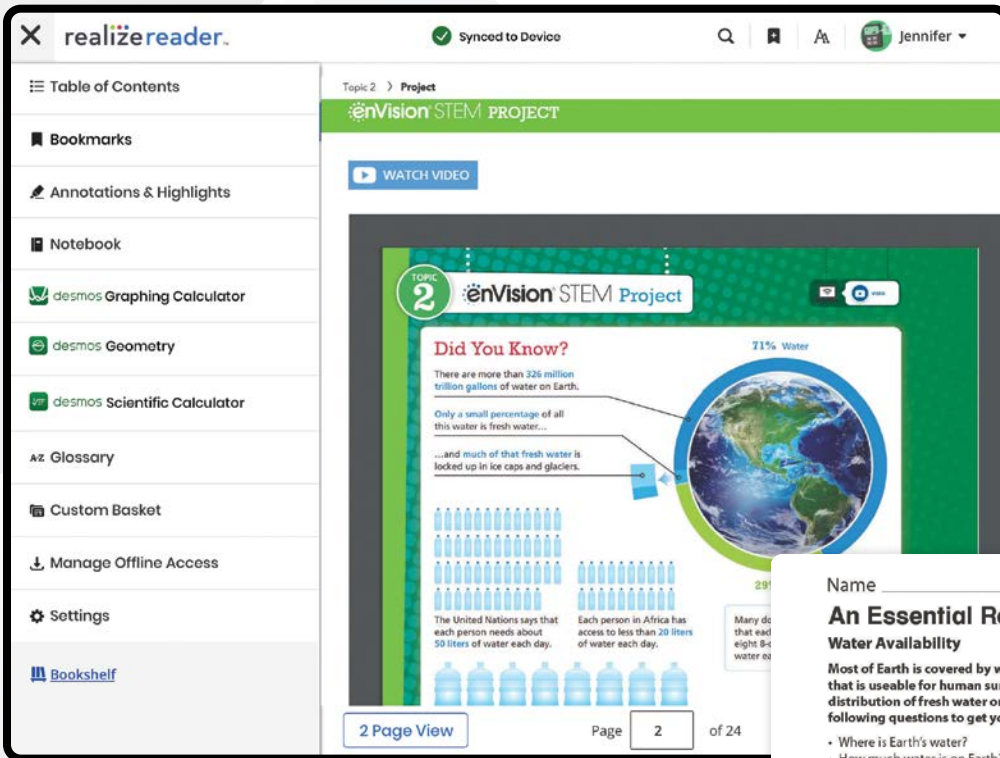


## Pick a Project

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)

# 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 focus on solving a problem based on real-world applications.
- Designed for flexible implementation.
- Projects incorporate the engineering process.

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.

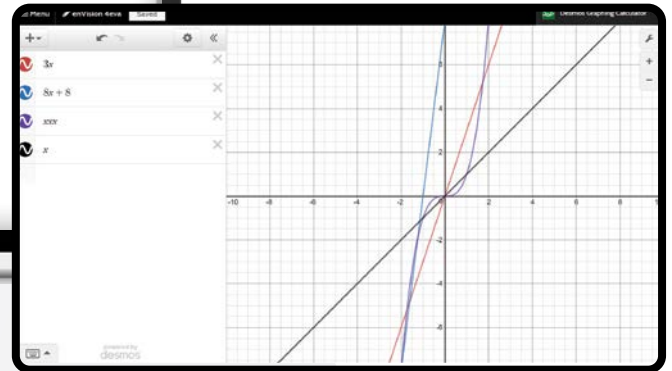
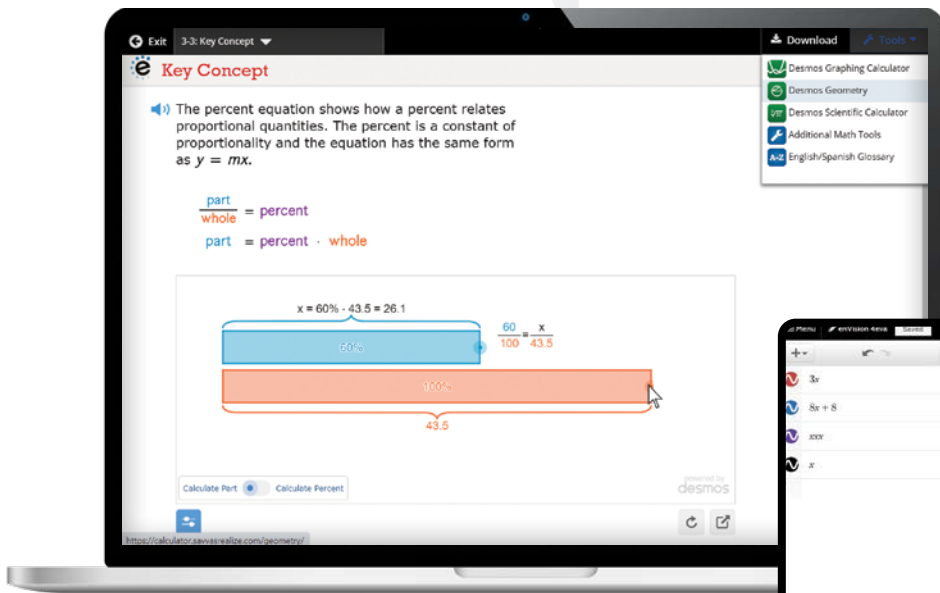
	Salt Water	Fresh Water
Sources	List the different types of sources of each type of water.	
Percent of all water on Earth		

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?

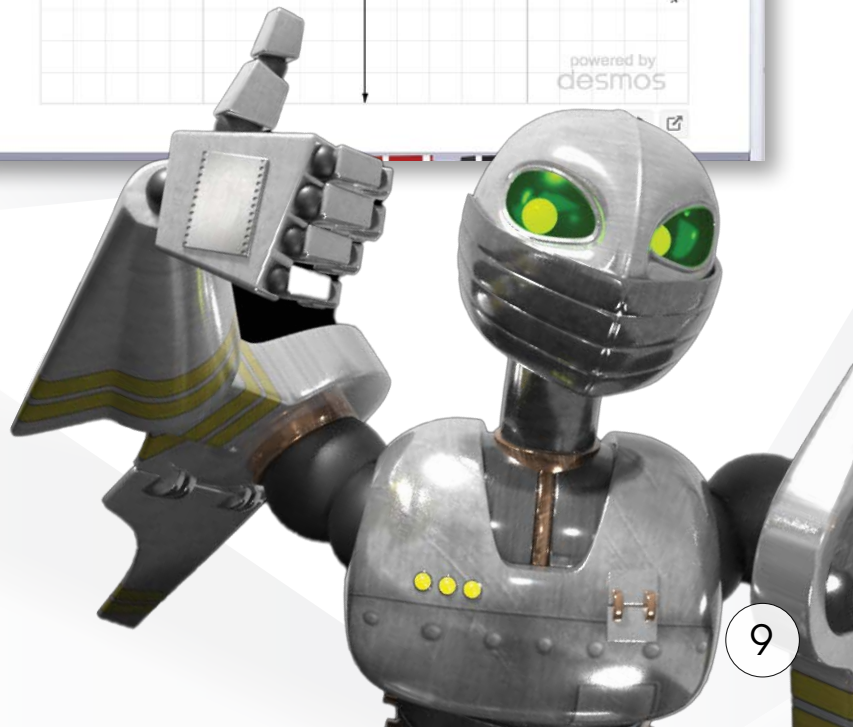
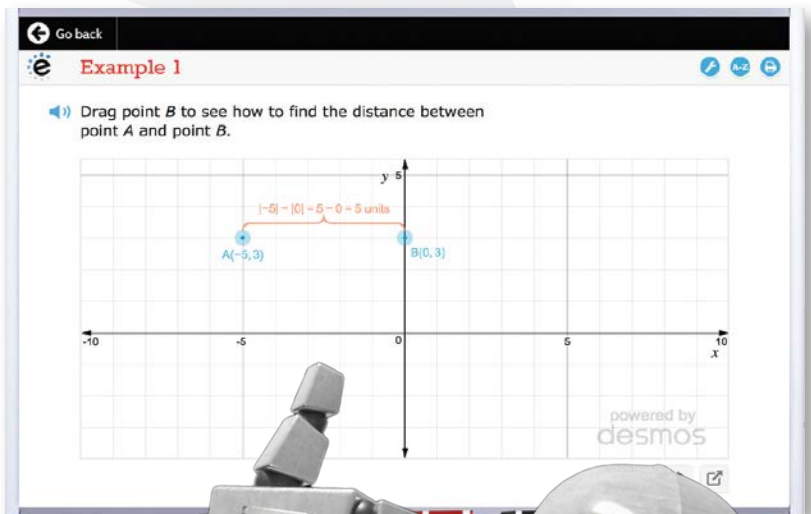






## Embedded Interactivities Powered by Desmos™ Graphing Calculator

- **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 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

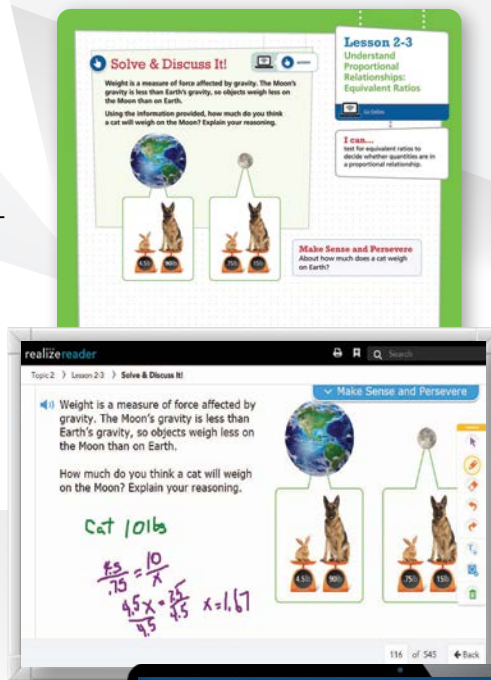
Interactive workspace engages students and encourages active participation in learning.

#### Language Support Handbook

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

#### English Language Learners

Lessons include a Language Objective and ELL instruction to support different levels of English proficiency supporting different language modalities and performance descriptors.



#### 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.

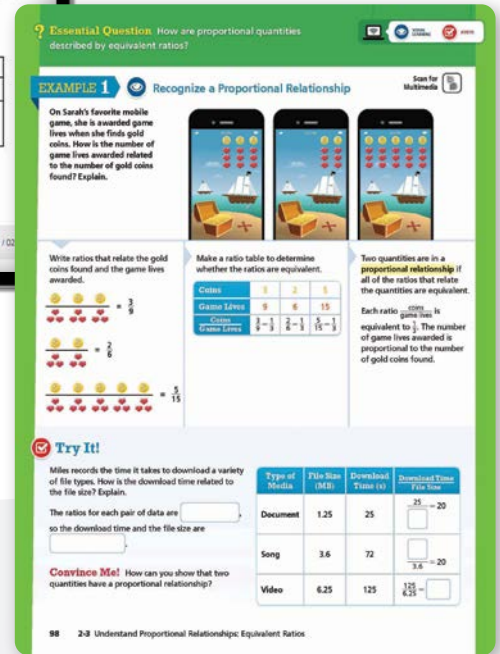
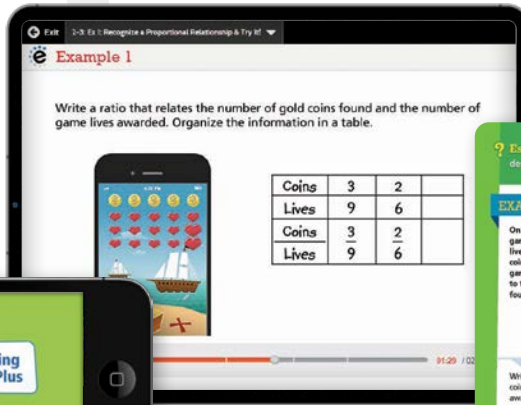
#### Manipulatives Kits

Allow students to engage in concrete modeling when developing abstract thinking.



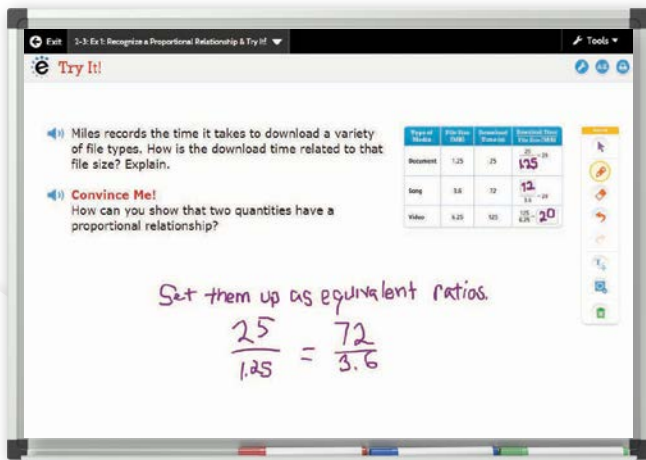
## BouncePages

Launch Visual Learning Animation Plus videos from the student page with [BouncePages.SavvasRealize.com](http://BouncePages.SavvasRealize.com).



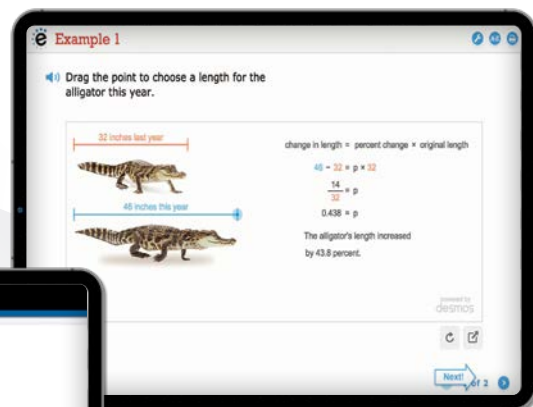
## STEP 2 Visual Learning

- 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.



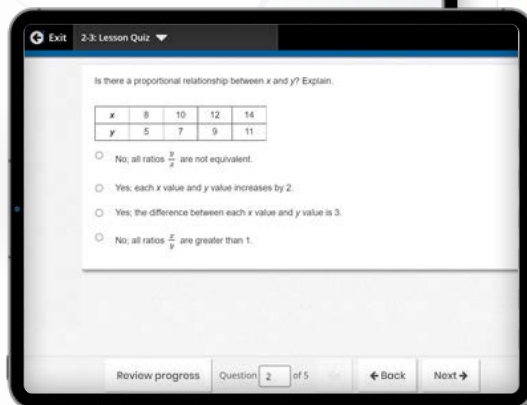
## Try It!/Convince Me! Online

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 West Virginia assessments.



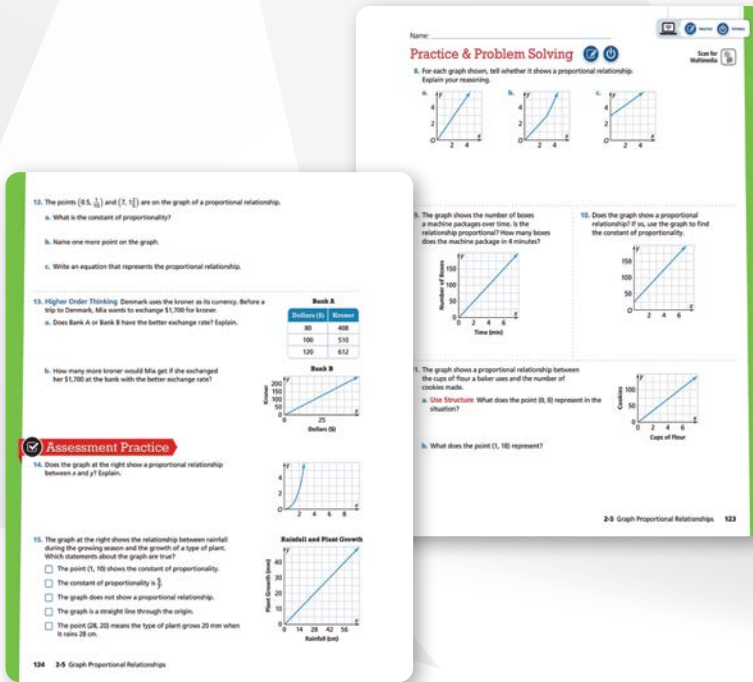
## Additional Examples

More examples 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 West Virginia assessments



## MathXL® for School: Additional Practice

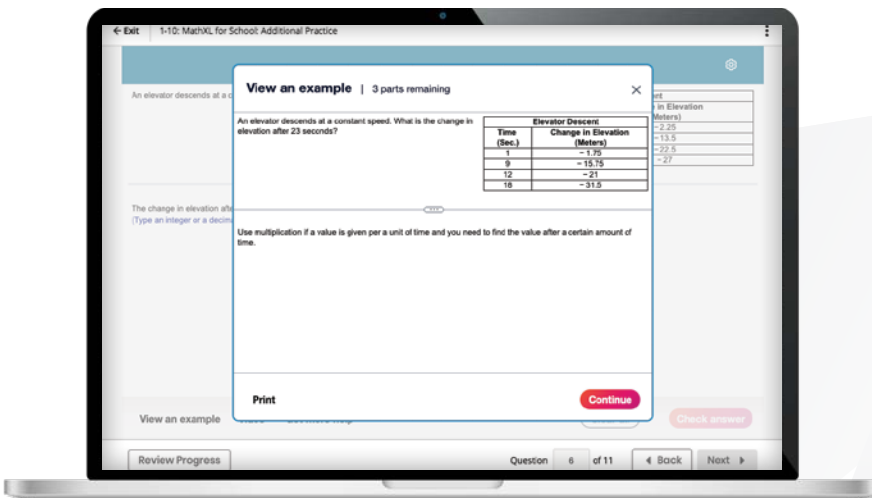
Instant feedback and learning aids help all students be successful.

## MathXL® for School: Practice & Problem Solving

Students are engaged as they practice and apply math ideas.

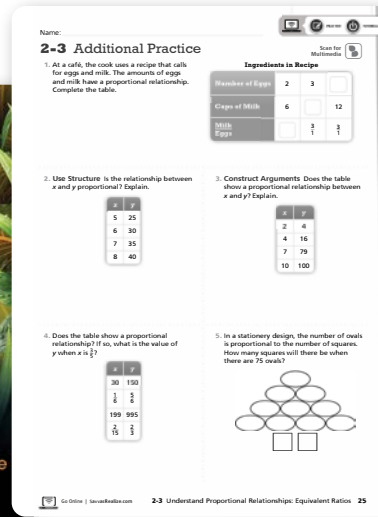
## MathXL® for School: Enrichment

Students select tools to personalize their learning.

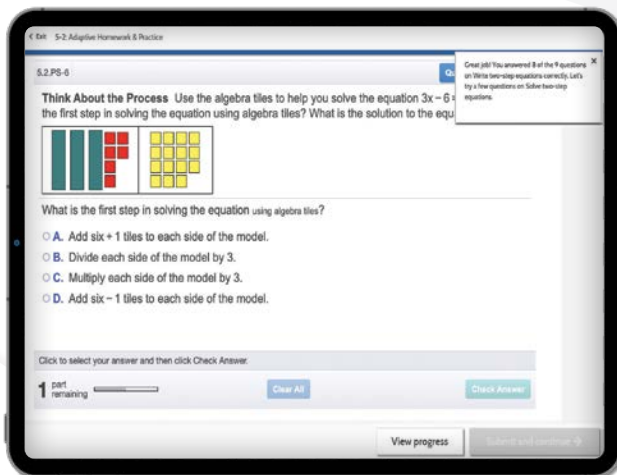


## Additional Practice\*

- 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.



## Savvy Adaptive Practice

- Personalized practice in real time focuses on key concepts.
- 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.
- English and Spanish closed-captioning.



## BouncePages

Launch Virtual Nerd videos from student pages with [BouncePages.SavvasRealize.com](http://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.

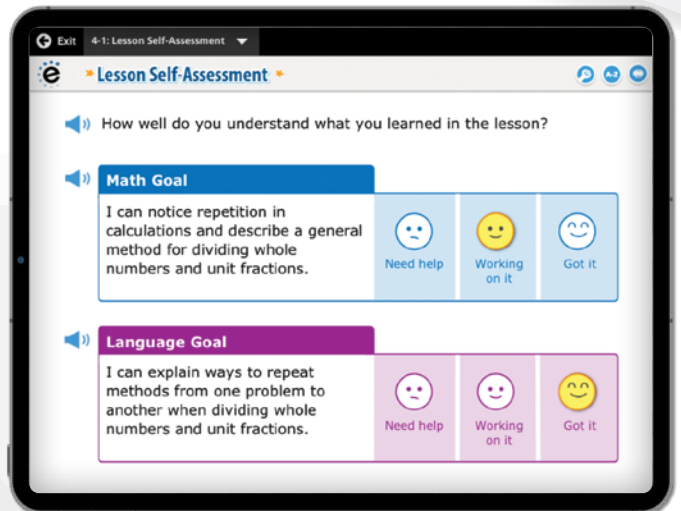
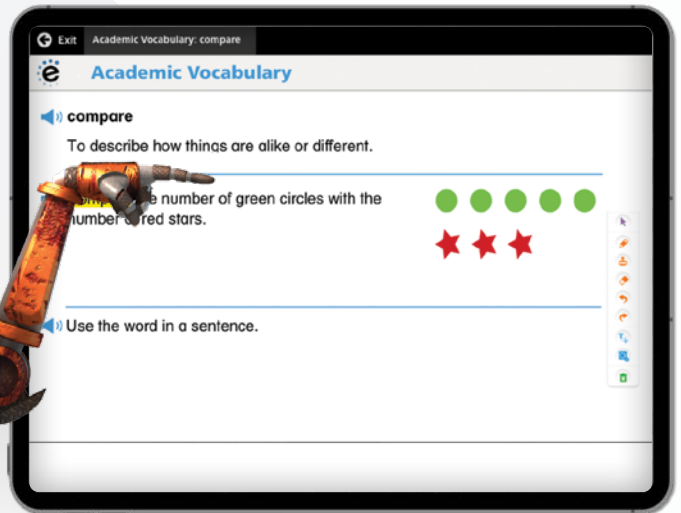
**Reading:** Read the sample instruction and then discuss and record your responses.

**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

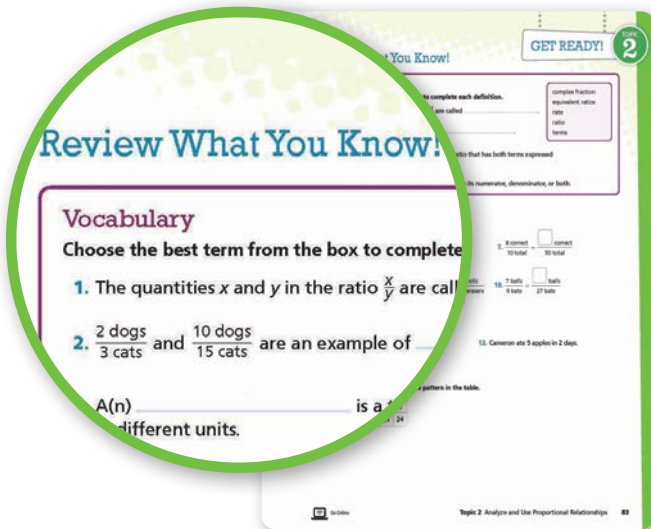


## Lesson Self-Assessment

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*® Assessment Suite offers options to move students toward mastery while driving instructional differentiation.



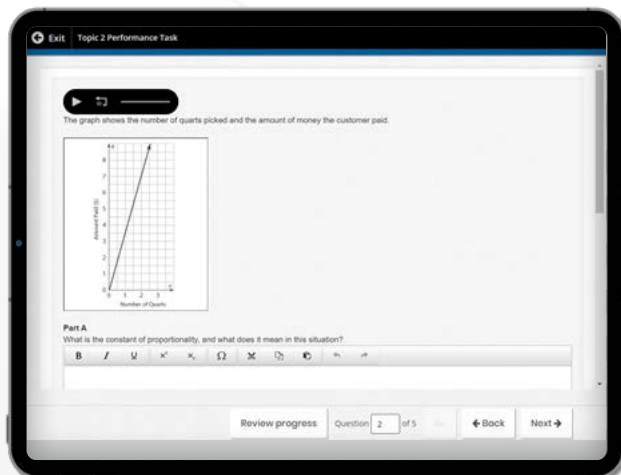
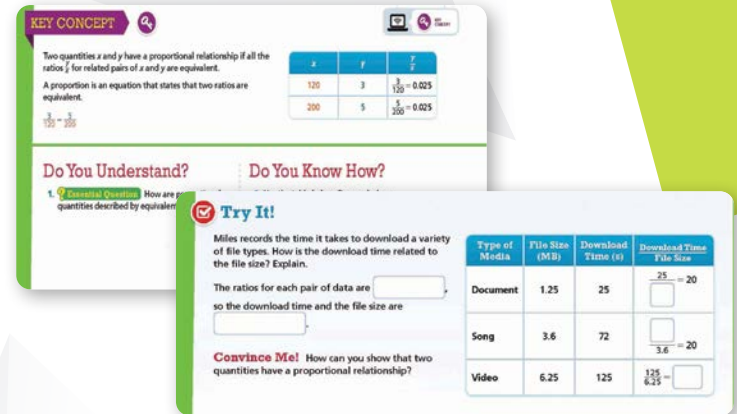
## DIAGNOSTIC Assessment

- Readiness Assessment
- 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



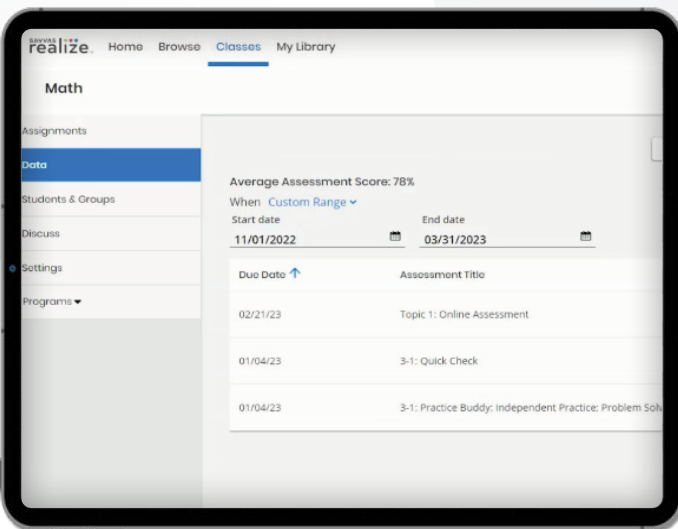
## SUMMATIVE Assessment

- Topic Assessments (Forms A and B)
- Topic Performance Assessments (Forms A and B)
- ExamView® Test Generator
- Fluency Assessments
- Cumulative/Benchmark Assessments
- Progress Monitoring Assessments (Forms A, B, and C)

# 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.

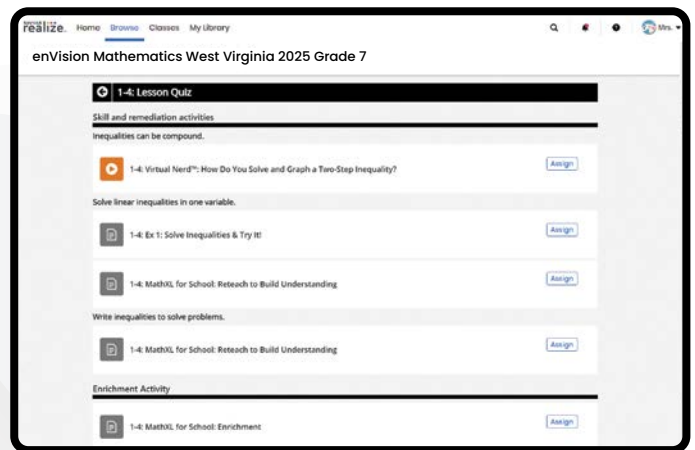
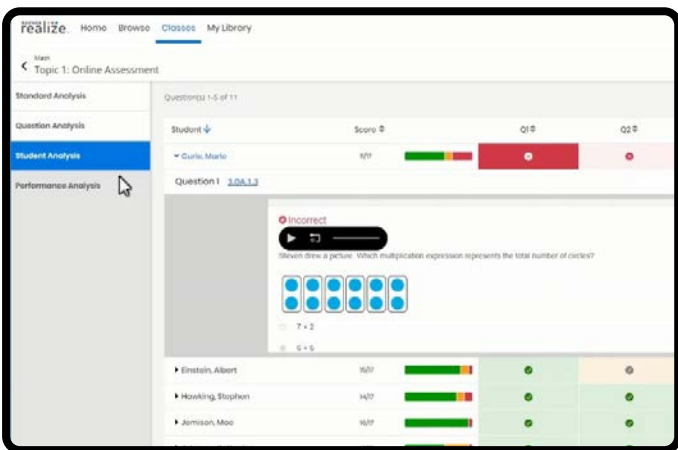


### Savvas Math Screener and Diagnostic Assessments (MSDA)

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

### Data Overview

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



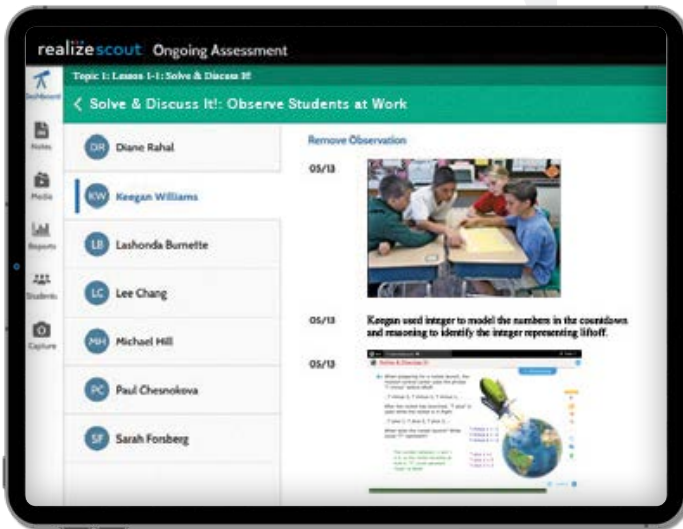
### Standards Analysis

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

### Auto-Assign Differentiation

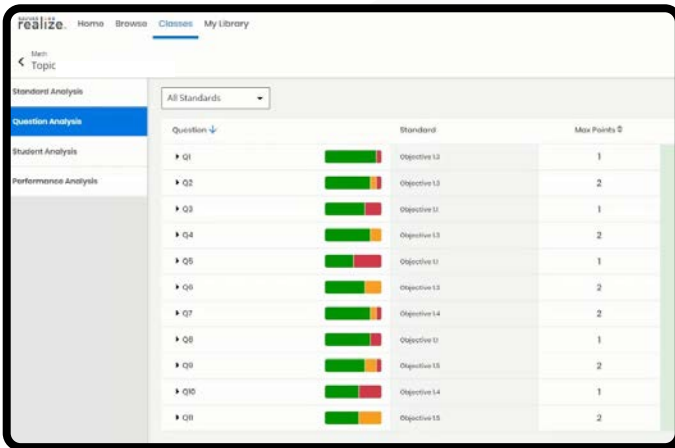
Differentiation is based on results of the online Lesson Quiz, Topic Readiness Assessment, Topic Assessment, and Cumulative/Benchmark Assessment.





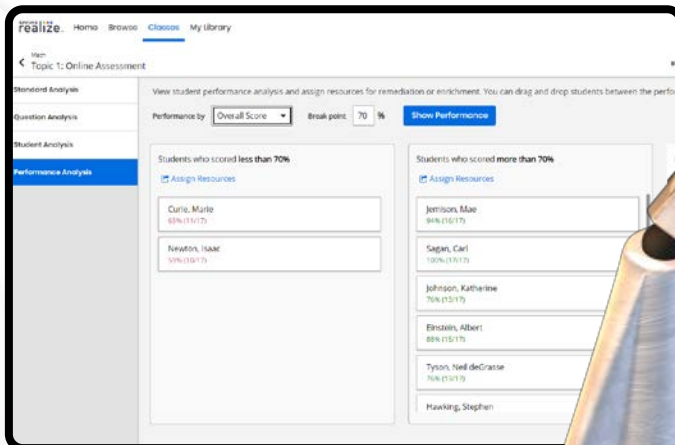
## Savvas Realize® Scout Observational Assessment Tool

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



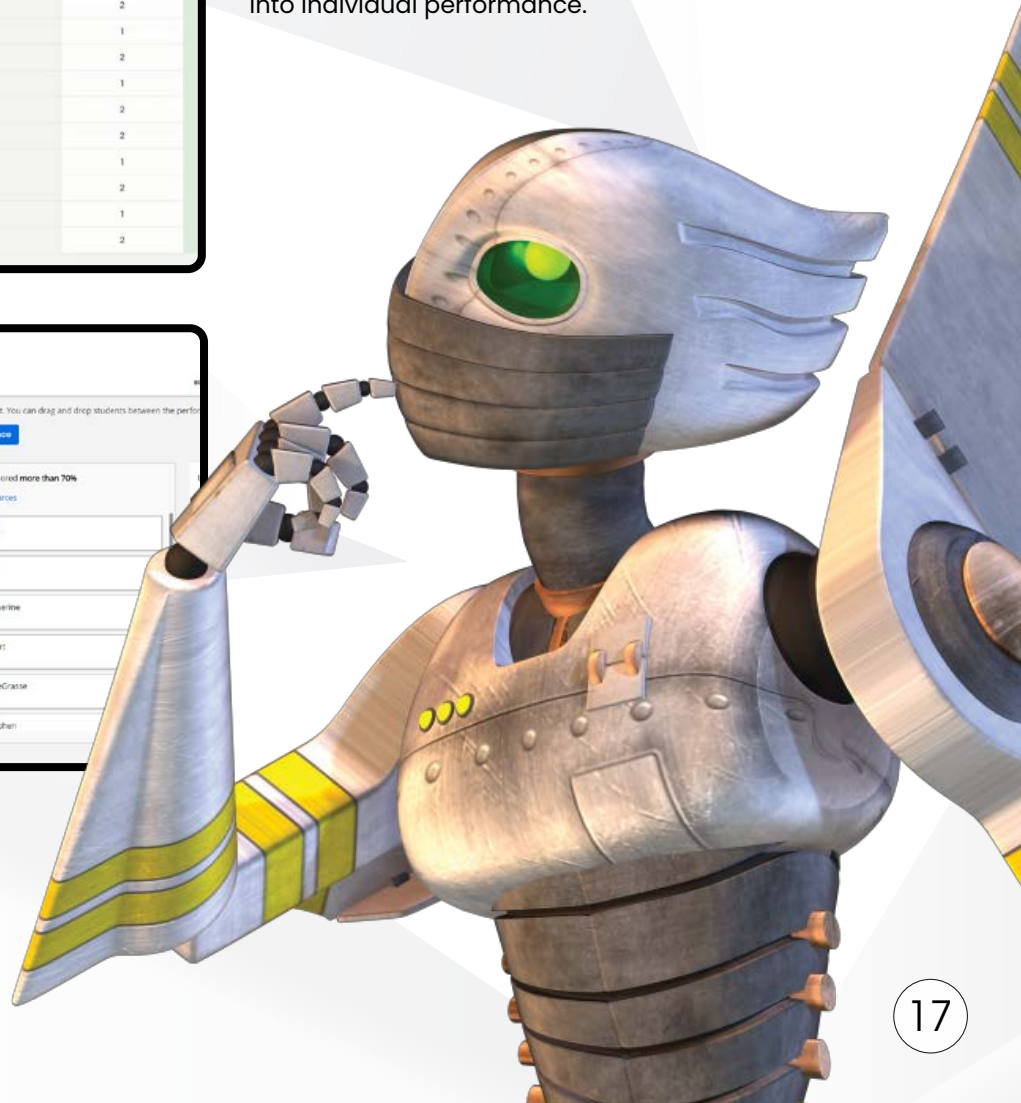
## Question Analysis

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 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  $\frac{1}{2}$  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

### Reteach to Build Understanding **I**

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

Name \_\_\_\_\_

2-3 Additional Practice

1. All a chef, 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			
Number of Eggs	2	3	
Cups of Milk	6	12	
Milk (pints)		$\frac{1}{2}$	$\frac{1}{4}$

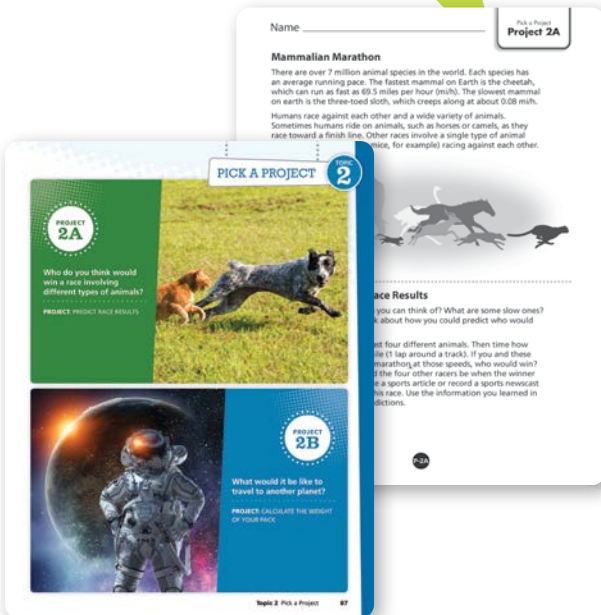
- Use Structure Is the relationship between  $x$  and  $y$  proportional? Explain.
- Construct Arguments Does the table show a proportional relationship between  $x$  and  $y$ ? Explain.

$x$	5	25
$y$	6	30
	7	35
	8	40

$x$	2	4
$y$	4	16
	7	79
	10	100

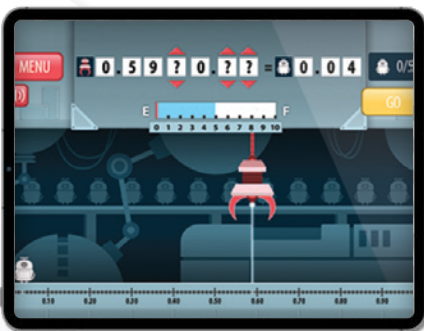
### Additional Practice **O** **A**

Additional practice pages to reinforce understanding of lesson concepts. Available as print Workbook, online Math XL® for School, Interactive Realize Reader™, and editable Word® Doc.



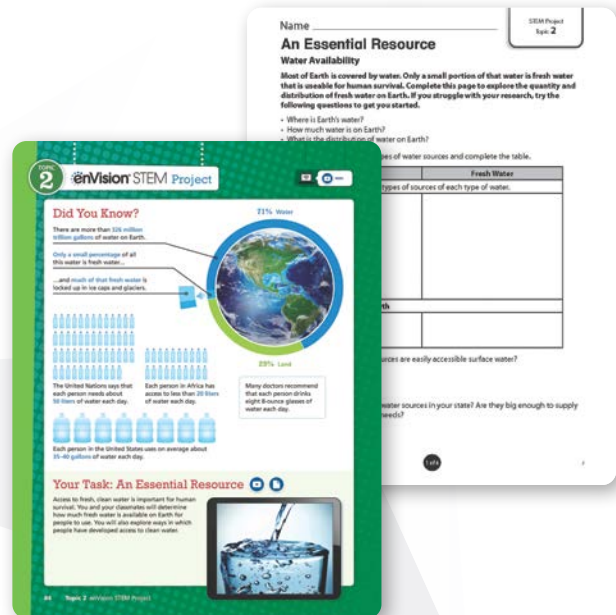
## Pick a Project I O A

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



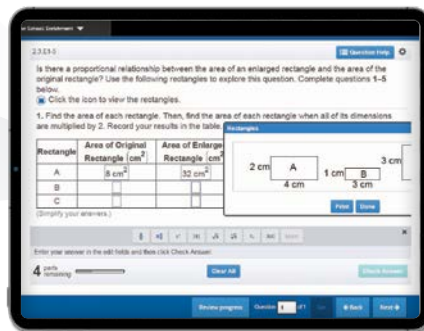
## Technology Center I O A

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



## STEM Projects I O A

Projects focus on solving a problem based on real-world applications to demonstrate the value of math.



## 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 7 program pathway is offered as well.

Complete print and digital accelerated program prepares students for Algebra in Grade 8. Includes West Virginia Standards Reporting and Mastery with WV Standards in the courseware. Also includes West Virginia Student Lesson content for easy access.

### 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.

A laptop screen displays a math lesson titled 'Equivalent Ratios'. The lesson includes a 'Lesson Goal' to find equivalent ratios, a 'You Already Know' section stating that a ratio is a comparison, and an example of three ways to write a ratio comparing 3 circles to 5 squares. The examples are '3 to 5', '3 : 5', and a fraction  $\frac{3}{5}$ . A 'Work It Out' button is at the bottom of the lesson content. In the foreground, a silver robot hand with green eyes points towards the laptop screen, and a silver robot head with green eyes is visible on the right side of the frame.



## TIER 3: Intensive Intervention System (MDIS)

Intervention Lesson: **MP**

**Equivalent Fractions** (continued)

10. So,  $\frac{9}{12}$  is equivalent to three  $\frac{1}{4}$  strips.  $\frac{9}{12} = \frac{3}{4}$

You can use division to find a fraction equivalent to  $\frac{9}{12}$ . To do this, divide the numerator and the denominator by the same number.

11. What number is the denominator of  $\frac{9}{12}$  divided by to get 4?  $\frac{9}{12} = \frac{3}{4}$

12. Since the denominator was divided by 3, the numerator must also be divided by 3. Put the quotient of  $9 \div 3$  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.  $\frac{2}{3} = \frac{4}{6}$       14.  $\frac{3}{4} = \frac{6}{8}$

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

15. Is  $\frac{1}{2}$  in simplest form?      16. Is  $\frac{4}{8}$  in simplest form?      17.  $\frac{1}{2} = \frac{2}{4}$       18.  $\frac{3}{6} = \frac{1}{2}$       19.  $\frac{2}{4} = \frac{1}{2}$

20.  $\frac{7}{10} = \frac{7}{10}$       21.  $\frac{1}{4} = \frac{1}{4}$       22.  $\frac{1}{1} = \frac{1}{1}$

Write each fraction in simplest form.

23.  $\frac{3}{6}$       24.  $\frac{1}{2}$       25.  $\frac{3}{5}$       26.  $\frac{1}{4}$

27. **Reasoning** Explain why  $\frac{1}{2}$  is not in simplest form.

MP Student p. 21

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?  $\frac{2}{3} = \frac{2}{3}$

3. So,  $\frac{2}{3}$  is equivalent to four  $\frac{1}{6}$  strips.  $\frac{2}{3} = \frac{4}{6}$

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 6?  $\frac{2}{3} = \frac{4}{6}$

5. Since the denominator was multiplied by 2, the numerator must also be multiplied by 2. Put the product of  $2 \times 2$  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.  $\frac{1}{2} = \frac{2}{4}$       7.  $\frac{2}{3} = \frac{4}{6}$

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

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

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

MP Student p. 11

**EQUIVALENT FRACTIONS**

Intervention Lesson: **MP**

**Equivalent Fractions**

**Objective** Students will find equivalent fractions.

**Vocabulary** Numerator, denominator

**Materials** Crayons or markers

**1 Conceptual Development** Use with Exercises 1-5.

In this lesson you will learn to find equivalent fractions. Before you use fraction strips to identify equal fractions, show the fraction strip for the target fraction (conceptual)  $\frac{2}{3}$ ,  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{5}$ ,  $\frac{1}{6}$ . Then students complete Exercises 1-5. 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 6? What will you multiply the numerator 2 by? Have students complete Exercises 6-7. After operations to the opposite of multiplication,  $\frac{2}{3} = \frac{4}{6}$ . Explain that students will divide the numerator and denominator by the same number to find an equivalent fraction. Have students complete Exercises 8-13.

**2 Practice** Use with Exercises 13-27.

Students have to self-reflect to multiply or divide to find the equivalent fraction. Explain that if the number in the new fraction is greater, then multiply. If it is less, then divide.

**Error Intervention** If students have difficulty finding equivalent fractions, have them write the equivalent fraction and explain how they found the equivalent fraction.

**If You Have More Time** Have students write a set of ten equivalent fractions by multiplying or dividing by different numbers.

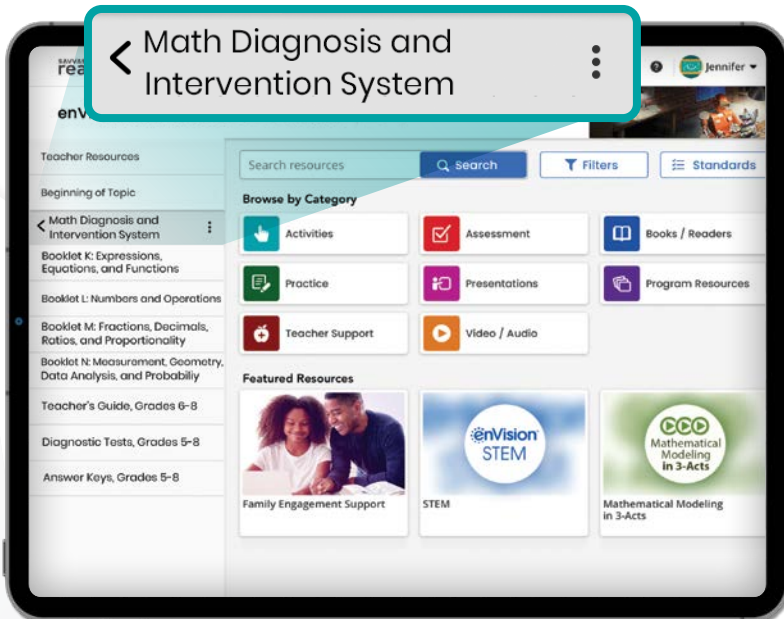
**3 Assessment**

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

**Quick Check** Write the equivalent fraction  $\frac{2}{3} = \frac{4}{6}$ .

MP Student p. 13

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

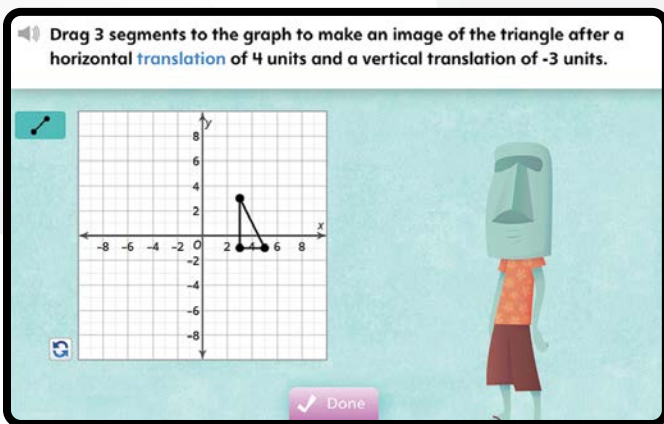


- **Diagnostics** Use the diagnostic tests in the system. Also, use the item analysis charts given with program assessments at the start of a grade or Topic, or at the end of a Topic, group of Topics, or the year.
- **Intervention Lessons** These two-page lessons include guided instruction followed by 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?

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MATHEMATICS

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

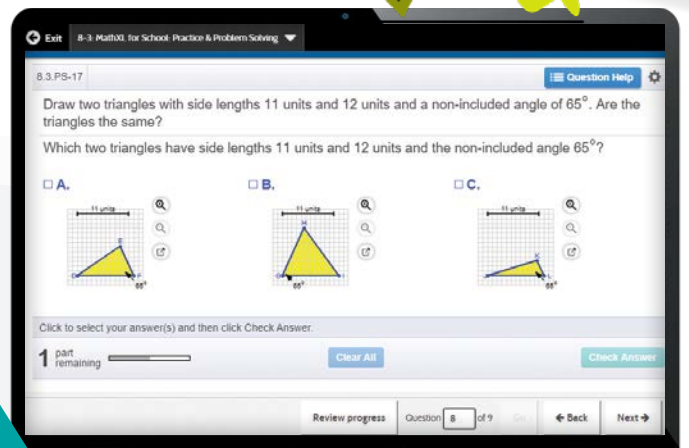


**TIER 3: SuccessMaker**  
Adaptive Learning



**SuccessMaker** calibrates with every question:

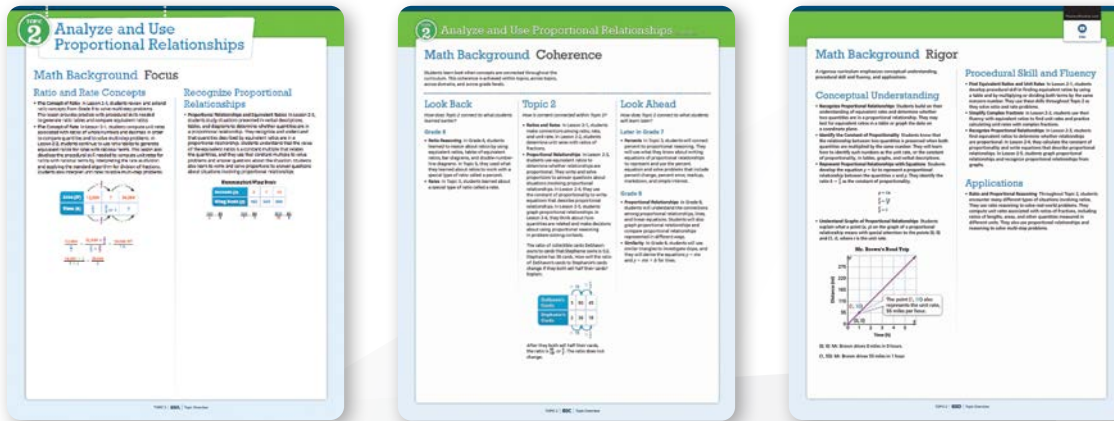
- Uses direct connections from *enVision® Mathematics*.
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**Evidence-Based**  
**Intervention**

# 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.

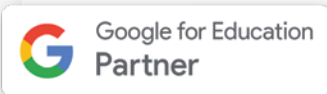
Math background for Topics and Lessons serves as an easy-to-access math methods course.

## Make every lesson perfect for you.

Access all digital content, assessments, and management tools at [SavvasRealize.com](https://www.savvasrealize.com).

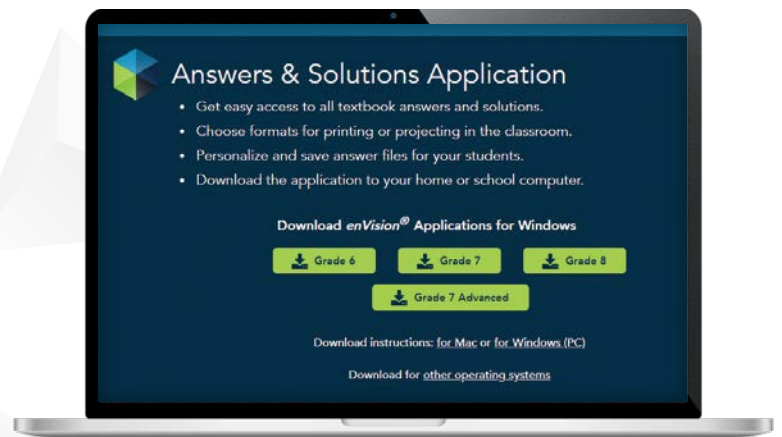
- Search by keyword or West Virginia standard
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- Align to your district framework
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## Present with ease in the classroom.

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



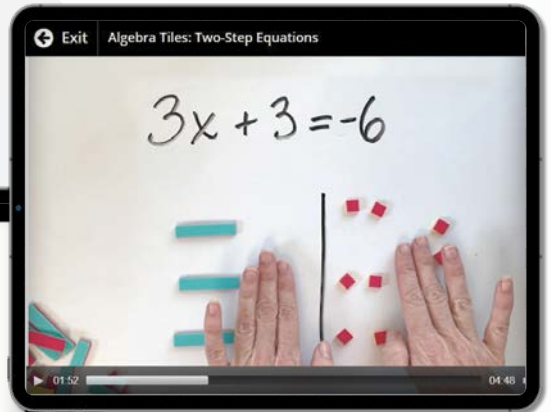
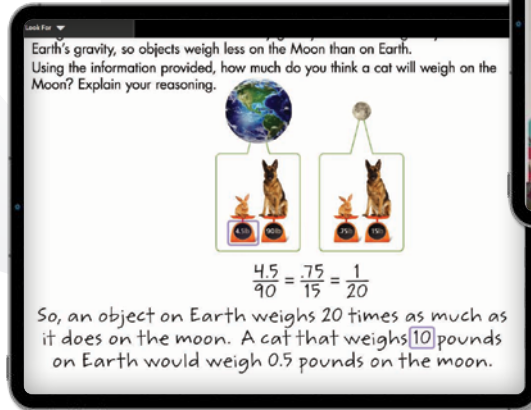
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# Managing Classes

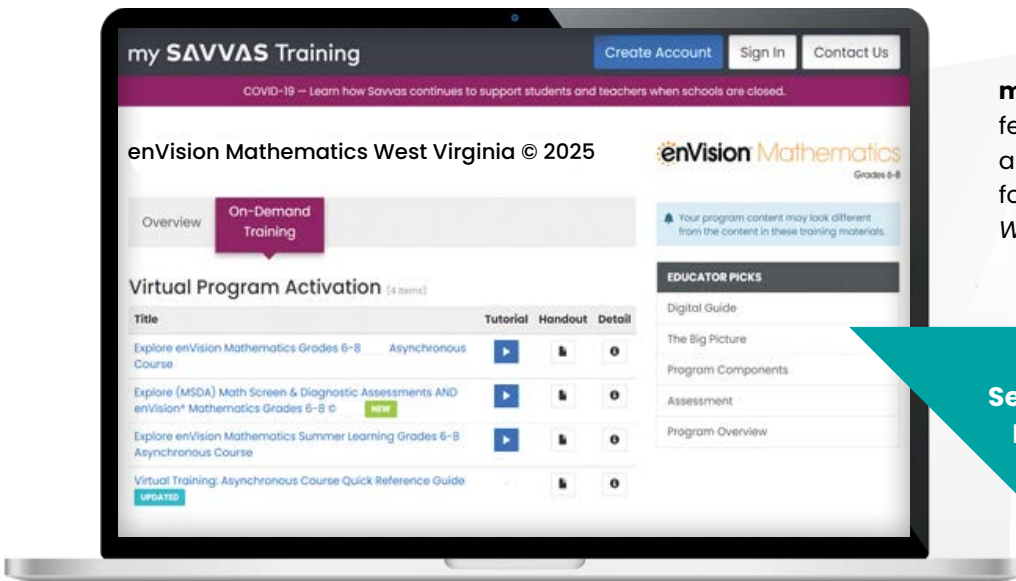


**Classroom and Professional Learning on SavvasRealize.com** give important perspectives on math concepts and show the program in action.

**Listen and Look for 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.



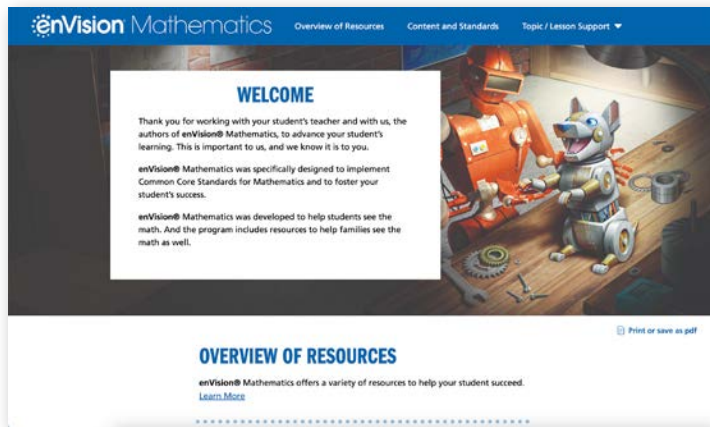
**mySavvasTraining.com** features many online tutorials and quick-start guides for enVision® Mathematics West Virginia. Available 24/7!

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!



## Family Engagement Resources

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.

The illustration shows a water tower with a gauge. The gauge has a red needle pointing to a mark labeled '-3 3/4 gallons in 6 minutes'. The scene is set outdoors with some greenery and a blue sky.

## 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.



# Accelerated Grade 7 Resources

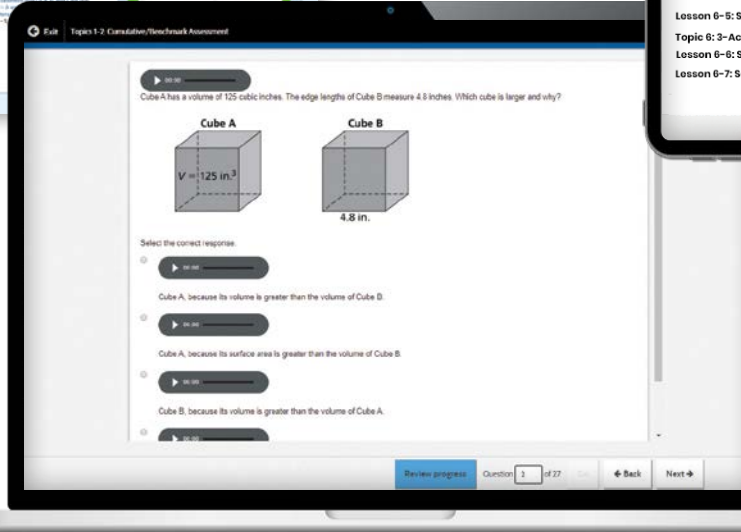
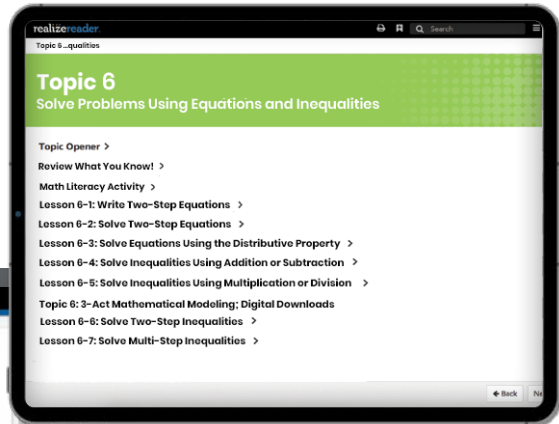
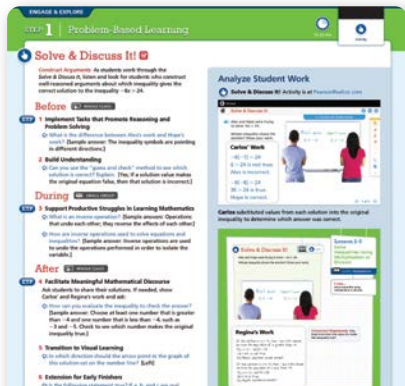
Does your school implement an accelerated math pathway? *enVision® Mathematics Accelerated Grade 7* prepares students for Algebra in Grade 8. The Savvas Realize® courseware contains WV Standards Reporting and Mastery with WV standards in the courseware as well as WV-specific Student Lessons and instruction for easy access.



Aligned to WVCCRS  
for Math

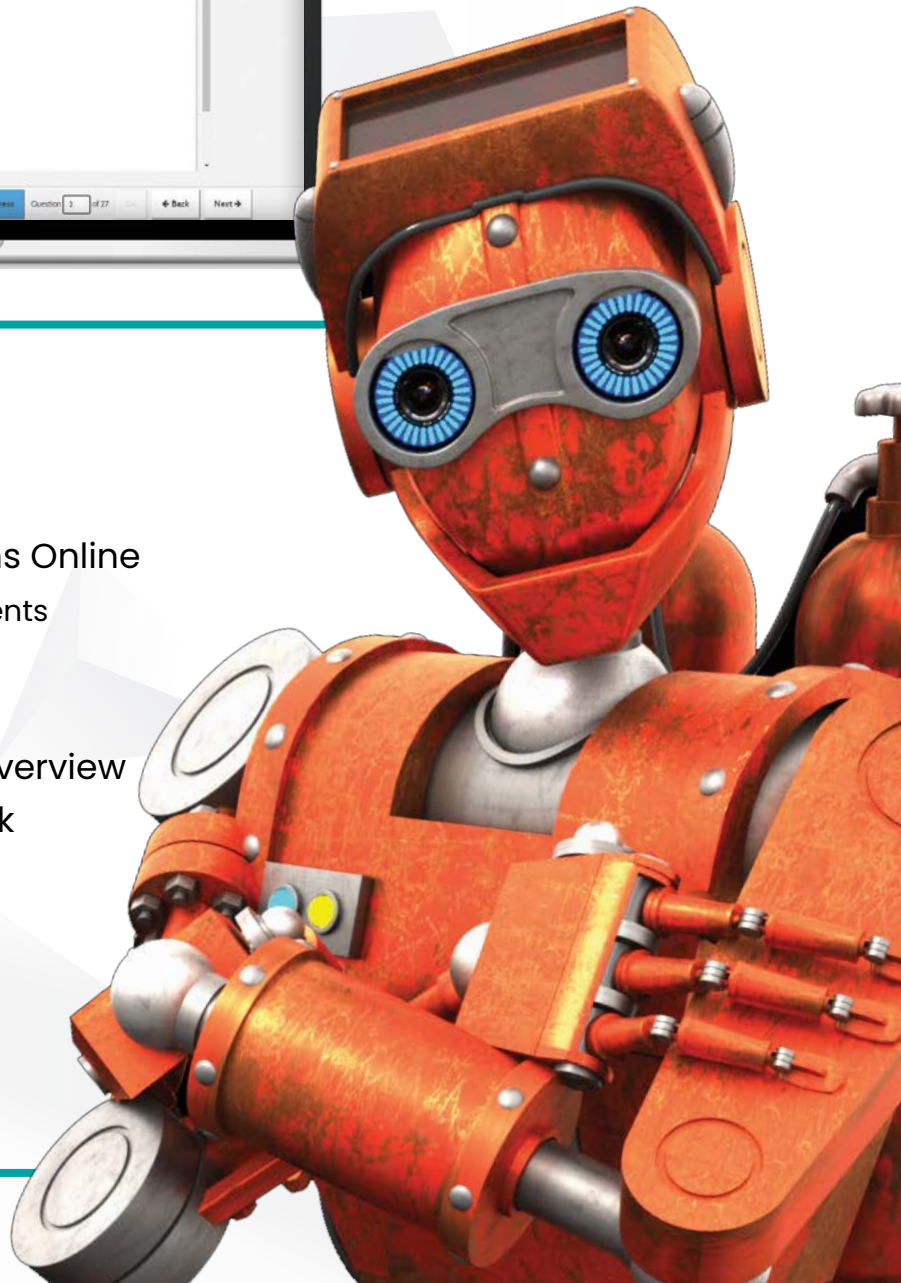
## Table of Contents

- 1 Rational Number Operations
- 2 Real Numbers
- 3 Analyze and Use Proportional Relationships
- 4 Analyze and Solve Percent Problems
- 5 Generate Equivalent Expressions
- 6 Solve Problems Using Equations and Inequalities
- 7 Analyze and Solve Linear Equations
- 8 Use Sampling to Draw Inferences About Populations
- 9 Probability
- 10 Solve Problems Using Geometry
- 11 Congruence and Similarity
- 12 Understand and Apply the Pythagorean Theorem
- 13 Solve Problems Involving Surface Area and Volume



## Components:

- Student Edition
- West Virginia Student Lessons Online
  - West Virginia Table of Contents
  - West Virginia Correlations
- Teacher's Edition
- Teacher's Edition Program Overview
- Additional Practice Workbook
- Assessment Sourcebook
- Teacher's Resource Masters
- Language Support Handbook
- SavvasRealize.com



# enVision<sup>®</sup> Mathematics

## West Virginia



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