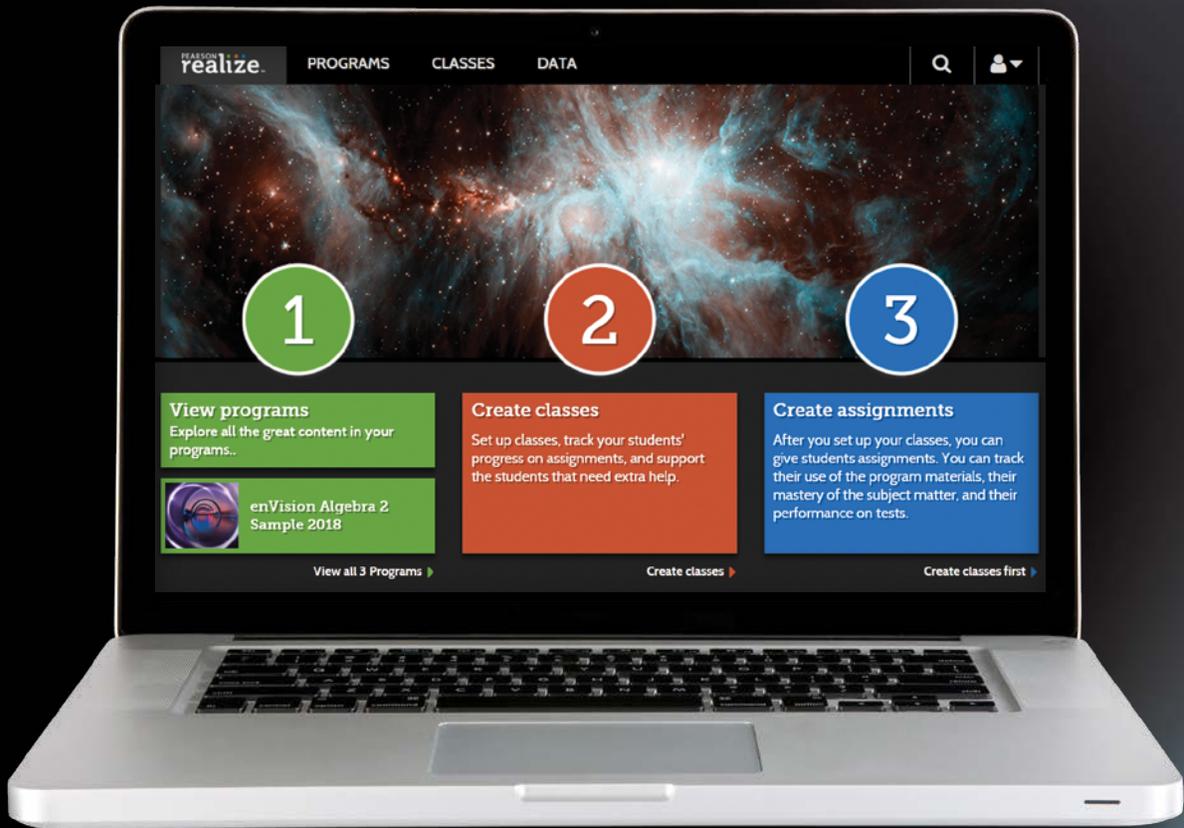


A new vision for High School Mathematics

enVision™ A | G | A
Algebra 1 Geometry Algebra 2

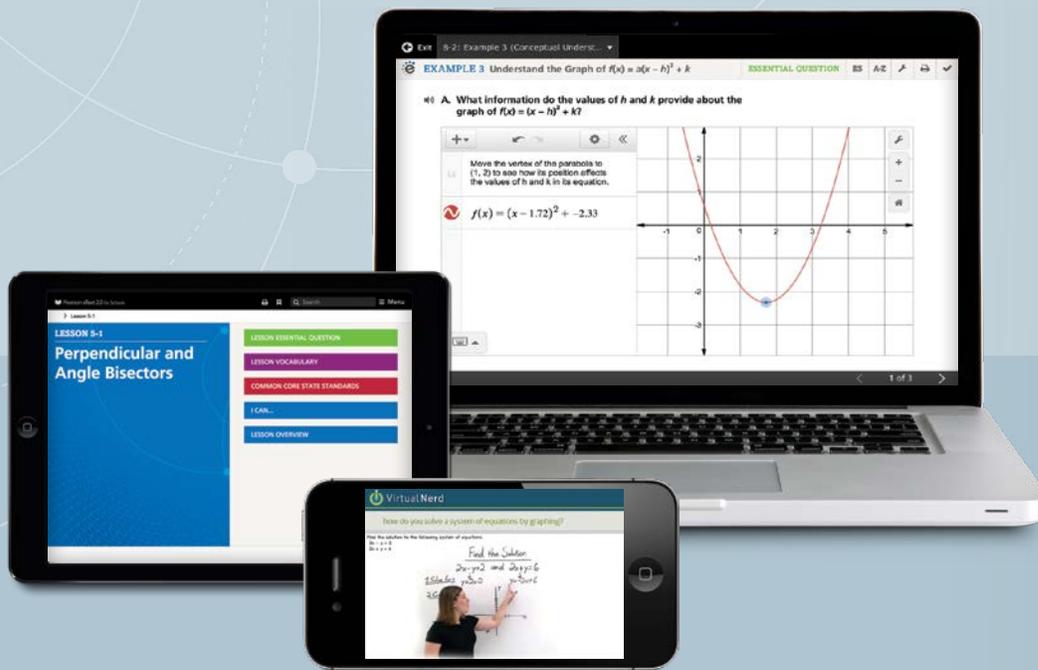


Realize the power of

enVision™ A|G|A

Algebra 1 Geometry Algebra 2

Savvas Realize™ is the online learning management system for enVision Algebra 1, Geometry, and Algebra 2. This full suite of personalized teaching and learning tools is just a click away.



Blended Instruction

Go Digital

This groundbreaking digital experience provides anytime—both online and offline—interactive learning.

Experience Math

enVision A|G|A provides a wealth of multimedia and interactive content to explain and reinforce complex mathematical concepts.

Work with Ease

Our simple-to-use program allows you to quickly find and assign content to individual students, groups of students, or the whole class.

Personalize Instruction

enVision A|G|A includes a suite of resources to help you effectively and efficiently meet the needs of all students.

Table of Contents

Student Experience	4
Teacher Experience	6
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Home Page	10
Navigating the eText	12
Navigating a Topic	14
Navigating a Lesson	16
Managing Classes	18
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Whether you teach fully digital or with a blend of print and digital, you can be assured that your students will gain a deeper understanding of mathematics.

Engaged & Personalized Learning

enVision A|G|A allows students to easily access lesson content and embedded interactives. Students can take notes using the integrated notebook and submit digital assignments and assessments through the system.



Habits of Mind

Questions help students develop the thought processes and skills used by proficient mathematical thinkers.

realize™

Seamless, innovative, and integrated digital experience

This cutting-edge eText

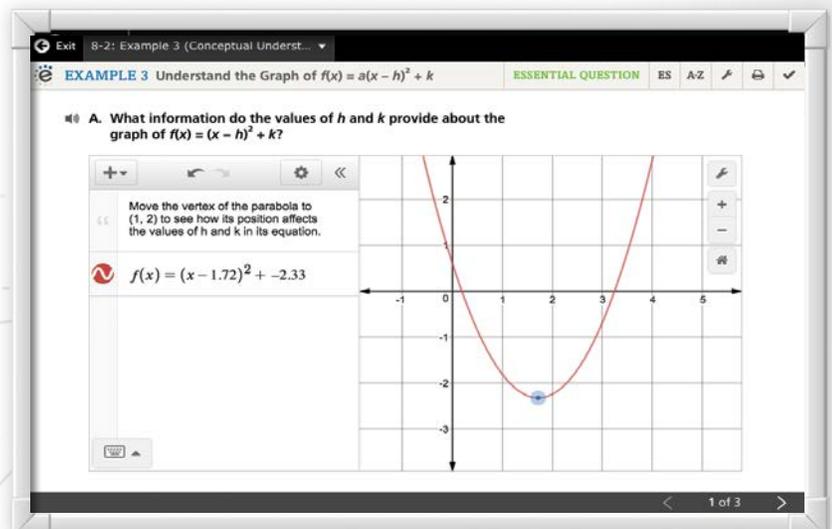
- Provides students with both **online and offline** access to program materials
- Includes **embedded interactive digital activities** at point of use
- Allows students to **respond** to probing questions throughout the lesson.
- Available on a wide array of devices

desmos

Active Learning

The digital interactives powered by Desmos foster conceptual understanding. These highly visual interactives bring mathematical concepts to life.

- Visual learning experience
- Focus on the math, not the tool
- **Embedded within Realize Reader at point of use**



Mathematical Modeling

Mathematical Modeling in 3 Acts are collaborative tasks that ask students to develop a mathematical model to explain a reality-based problem. These high-interest, low-entry tasks develop students' conceptual understanding, procedural fluency, and adaptive reasoning as they test out different models and conjectures to answer the question posed.

Act 1: The Hook



An engaging video introduces the question and gets students talking.

Act 2: Model with Math



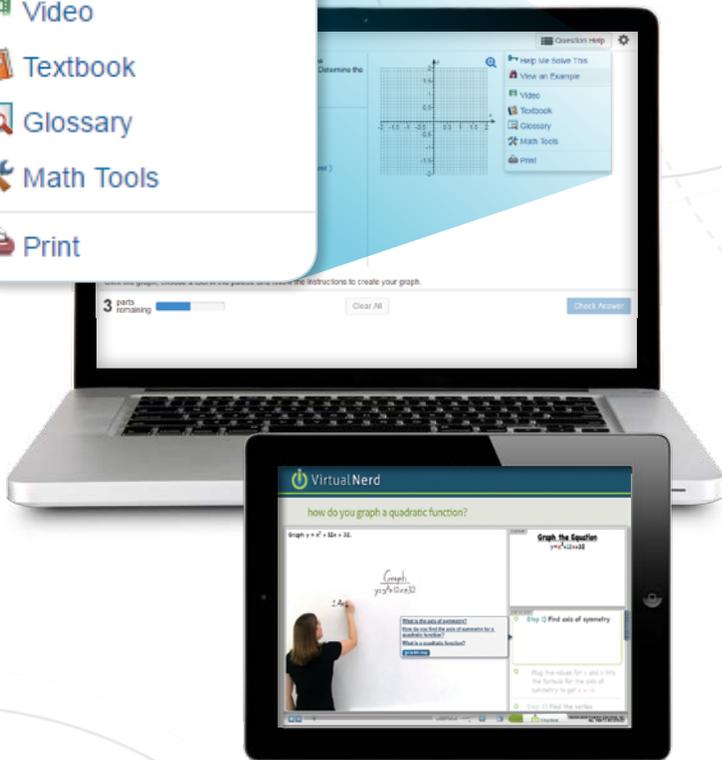
Students determine what resources they need and develop a solution to answer the question.

Act 3: Model with Math



The final video reveals the answer and student analyze the results.

- Help Me Solve This
- View an Example
- Video
- Textbook
- Glossary
- Math Tools
- Print



Individualized Learning Pathway

Content and technology come together to create a tailored pathway for each student's unique needs - all available and built within enVision A|G|A.

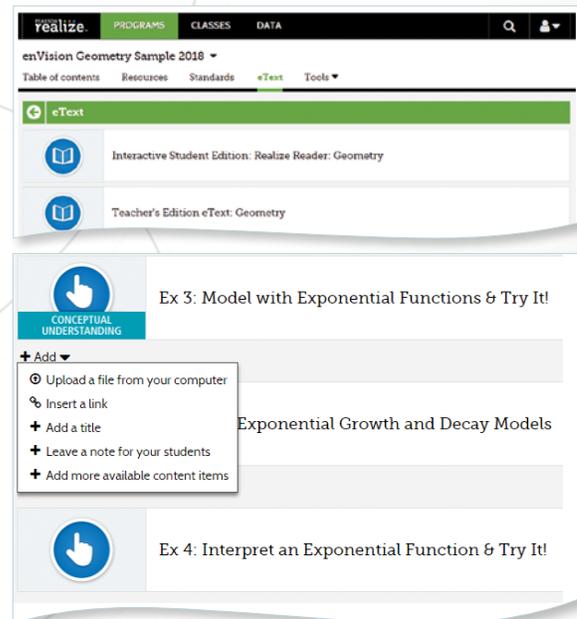
- **Individual Study Plans** fill in gaps on prerequisite knowledge and help students focus where they need to focus to experience success in high school mathematics.
- **MathXL® for School** embedded, auto-graded assignments provide instant feedback with learning aids that act as student's personal tutor, available 24-7.
- **Adaptive Practice powered by Knewton** gives struggling students a chance to practice concepts they have yet to master, while more advanced learners can stay engaged.
- **Virtual Nerd Tutorial Videos**, available in every lesson, allow students to drill down through videos to review prerequisite content.

Manageable & Flexible Teaching

enVision A|G|A makes it easy to customize, leverage technology and save hours on administrative tasks. Use ready-made assessments, practice, remediation, and reports.

Customize Instruction

- Editable interactives powered by Desmos are pre-built and embedded at point of use. No hassle or prep time required.
- Additional Anytime Tools powered by Desmos allows teachers or students to build their own classroom interactivities.
 - Graphing calculator
 - Scientific calculator
 - Geometry Tools
- Customize the table of contents through a simple drag and drop process.
- Modify or create a lesson with easy drop down menus.
- Powerful search functionality enables keyword or standard search to easily find content.



Evaluate $f(x) = \left(\frac{2}{3}\right)^x$ for $x = -3$ and $x = 0$. Drag the correct solution to each box.

$\frac{27}{8}$ 0 $\frac{9}{4}$ 1

$$f(-3) = \frac{8}{27}$$

$$f(0) = \frac{9}{4}$$

Which of the following are true of \overline{AB} given $A(9, 5)$ and $B(15, 2)$? Select all that apply.

- A. The midpoint is $(12, 3.5)$.
- B. The slope of the perpendicular bisector is $-\frac{1}{2}$.
- C. The slope of the perpendicular bisector is 2.
- D. The slope of the segment is $-\frac{1}{2}$.
- E. The distances from the endpoints of the segment to any point on the perpendicular bisector are equal.

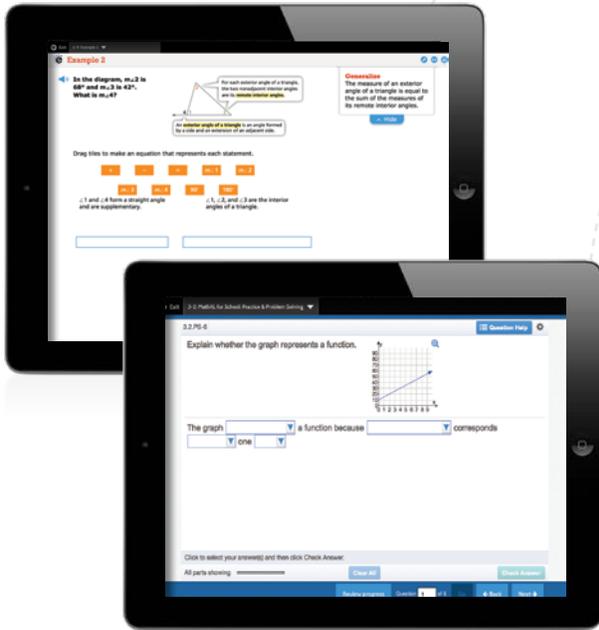
Assess and Differentiate

Assessment Suite

Technology enhanced items are in the same format that students will experience on next generation assessments.

enVision A|G|A provides a suite of ready-to-use diagnostic, formative, and summative assessments that can be administered both in print and digitally:

1. Course- and Topic-Level Diagnostic Assessments
2. Lesson Checks and Quizzes
3. Topic Assessments and Performance Tasks
4. End-of-Course Assessment
5. Next Generation Practice Assessments
6. Build Your Own Customized Assessment



Digital Intervention Practice exercise

Adaptive RTI

- **Lesson Quizzes** provide a quick way to determine the need for intervention.
- **Auto-assigned Lesson Differentiated Options** include Remediation, Additional Practice, or Enrichment.
- **Adaptive Practice Powered by Knewton** in every lesson supports struggling students with prerequisite skills not yet mastered and moves advanced students through the skill more efficiently.
- **Individualized Study Plans** provide a personalized learning pathway based on the results of each Topic Readiness Assessment.

Teacher Support

- **Effective Teaching Practices (ETP)** and professional development are embedded throughout the Teacher's Edition.
- **Additional Examples** allow for further explicit instruction if needed.
- **A complete library of resources** to support planning for Response to Intervention and teaching English Language Learners, including:
 - Point-of-use differentiation
 - ELL proficiency levels of support
 - Spanish closed captioning for video tutorials
 - Multilingual glossary
 - English/Spanish visual glossary

CRITIQUE & EXPLAIN

GOAL To introduce how a translation affects the graph of a quadratic function

Before WHOLE CLASS

CONNECT REPRESENTATIONS ETP

Q: How does the vertex of Graph B compare to the vertex of Graph A? [The vertex of Graph B is higher on the y-axis than the vertex of Graph A.]

ADDITIONAL EXAMPLES

Example 2A: Students identify the smallest angle of a triangle with the additional example.

Q: What is order of the sides of the triangle from shortest to longest? [DP, DP, DP]

Q: How can you use the ordered list of sides to write an ordered list of the angles of the triangle? [Answers may vary. Sample]

Example 2B: Students find the possible lengths of the third side of a triangle with the additional example.

Q: Is this the only triangle with side lengths 12 and 20?

Student: [No, there are many different triangles with those side lengths.]

Q: Is it possible that DP is the longest side of the triangle? Is it possible that DP is one of the two shorter sides of the...

ELL English Language Learners (Use with EXAMPLE 4)

LISTENING (BEGINNING) Explain that as a noun, *graph* means a diagram that represents a relationship among two or more variables. As verb, *graph* means to plot points or draw a curve to represent a function. Read the words and phrases below. Ask students to stand if the word or phrase refers to a graph as a noun and to sit if the it refers to graph as a verb.

Q: The companies profits are shown on a graph. [noun]

Q: Please graph the line $y = x$. [verb]

Q: How many homework problems contain graphs? [noun]

WRITING (INTERMEDIATE) Consider the words *value* and *evaluate*. Spend 3-5 minutes writing about how the words are similar and how they are different. Then, ask students to answer the questions in their journals.

Q: Is *value* a noun or a verb? [verb]

Q: Is *evaluate* a noun or a verb? [verb]

Q: Explain how the two words are related. [evaluate is the process used to find the value of an expression]

SPEAKING (ADVANCED) Place students in groups of 2-3. Give them index cards and have them write each step from the example. Have them shuffle the cards and take turns drawing cards and putting them in order.

Q: Which step comes first? [Enter the data in lists on a graphing calculator.]

Q: Which step comes second? [Use the Quadratic Regression feature.]

Q: Which step comes last? [Graph the quadratic regression and use the graph to answer the question.]

enVision Algebra 2 Sample 2018

6-1: Assess & Differentiate

- 6-1: Lesson Quiz
 - Assign Teacher resources Customize Remediation
- 6-1: MathXL for School: Reteach to Build Understanding
 - Assign Customize
- 6-1: Reteach to Build Understanding (PDF)
 - Assign Teacher resources
- 6-1: MathXL for School: Additional Practice
 - Assign Customize
- 6-1: Additional Practice (PDF)
 - Assign Info Teacher resources
- 6-1: MathXL for School: Enrichment
 - Assign Customize

Experience enVision A|G|A online!

Follow these steps to sign
in to **Savvas Realize™**

- 1 Navigate to **SavvasRealize.com.**
- 2 Click **Sign In.**
- 3 Enter your **username** and **password.**
- 4 Click **Sign In.**

A screenshot of a web form titled 'Pearson Sign In'. It includes a 'Help' link in the top right. There are two input fields: 'Username' and 'Password'. Below the password field is a link for 'Forgot your username or password?'. A blue 'Sign In →' button is located at the bottom right of the form.

You will only need to complete steps 5-10 the first time you register and sign in.

- 5 Select all the grades that you teach.
- 6 Select the programs you teach or want to review: enVision Algebra 1, enVision Geometry or enVision Algebra 2.
- 7 Type in the name you want your students to see.
- 8 Pick your profile icon.
- 9 Pick your background image.
- 10 Check "I agree to licensing agreement."

A New Vision for High School Mathematics



5

Click or tap to scroll to the next step

WHAT GRADES DO YOU TEACH?

Select all the grades that you teach.

<input type="checkbox"/> Pre-K	<input type="checkbox"/> Grade 6
<input type="checkbox"/> Kindergarten	<input type="checkbox"/> Grade 7
<input type="checkbox"/> Grade 1	<input type="checkbox"/> Grade 8
<input type="checkbox"/> Grade 2	<input type="checkbox"/> Grade 9
<input type="checkbox"/> Grade 3	<input type="checkbox"/> Grade 10
<input type="checkbox"/> Grade 4	<input type="checkbox"/> Grade 11
<input type="checkbox"/> Grade 5	<input type="checkbox"/> Grade 12

6

WHAT PROGRAMS DO YOU TEACH?

Select all the programs you teach.

7

WHAT IS YOUR NAME?

This is the name your students will see in the platform.
For example, Mrs. Smith

8

PICK A PROFILE ICON

9

PICK A BACKGROUND IMAGE FOR YOUR HOMEPAGE

Preview

10

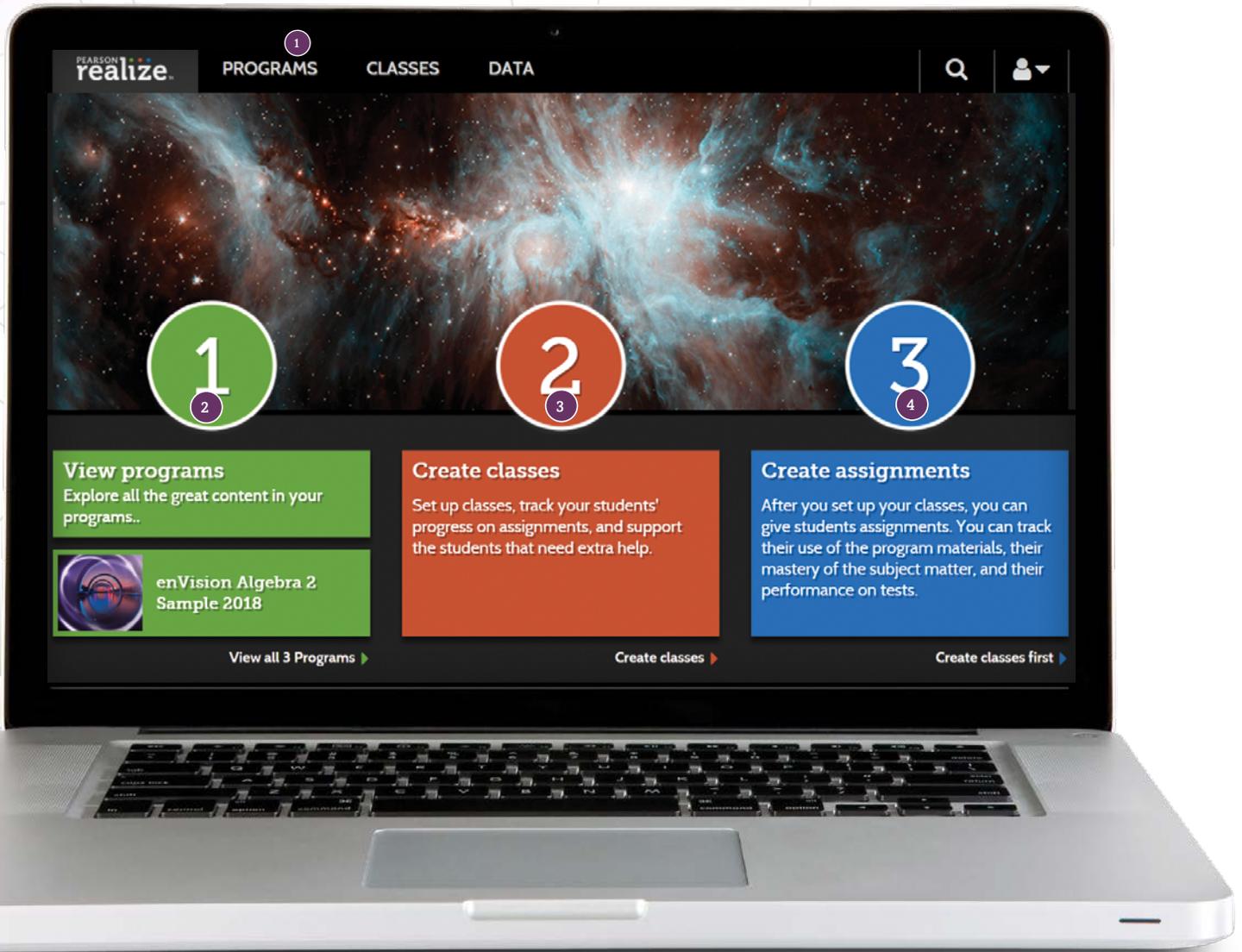
READY TO GET STARTED?

You can change any of these selections later in 'Settings'

I agree to the [licensing agreement](#)

Let's go!

Your Home Page



1. Click on the **Programs** tab.

2. Select the course you wish to preview. If you need help, visit myPearsonTraining.com

3. Manage your **Classes**, assignments, and reports at-a-glance.

4. View in-depth and real time reporting in the **Data** section.

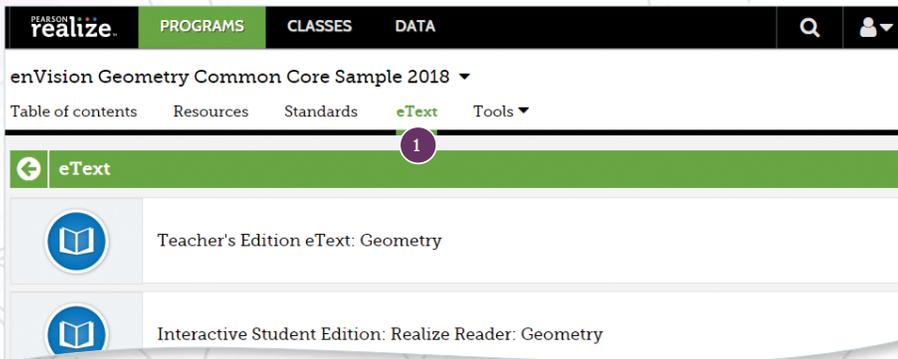
1. Keyword **Search** makes finding additional content easy.
2. Sort and search lessons by **Standards**
3. Access your student and teacher **eTexts** from the links at the top of the page.
4. Select **Tools** to view additional resources including the Anytime Tools powered by Desmos, online manipulatives, and a Spanish/English glossary.

5. Select **Rearrange** to customize the sequence of the curriculum.
6. Select **My Content** to edit content you previously created.
7. Select **T Show teacher resources**
8. Select **Create Content** to upload a file, add a link, or build a test.

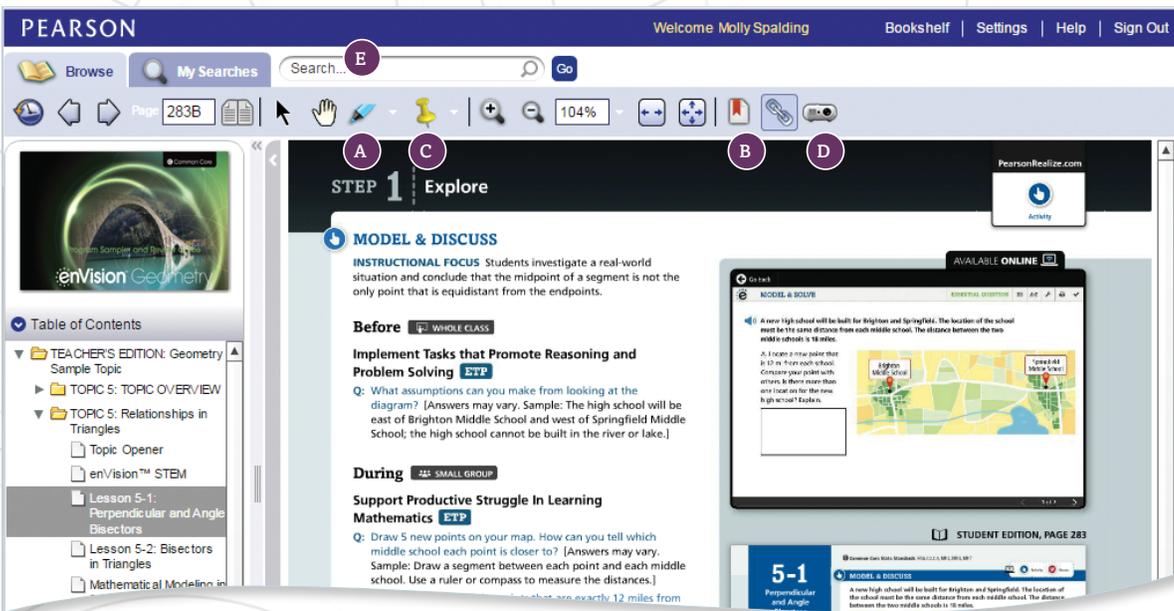
NOTE: The Table of Contents is seen here in Thumbnail View. A List View option is also available.

Teacher Edition eText

1. To view the digital Student and Teacher's Edition, click **eText** on top of the page.



2. Click Teacher's Edition.

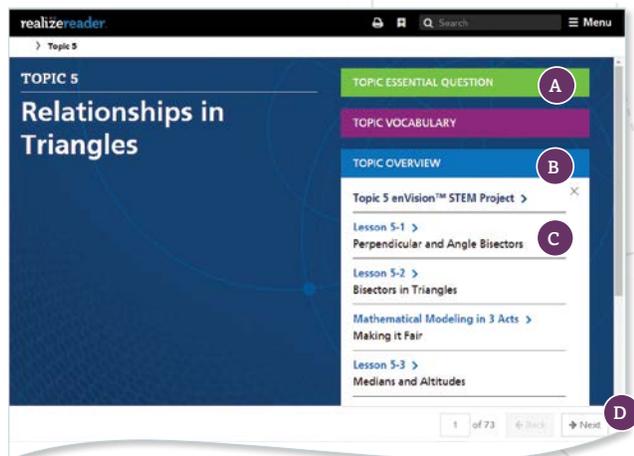


- A. Highlighting
- B. Bookmarks
- C. Sticky Notes Annotations]
- D. Projector View
- E. Search

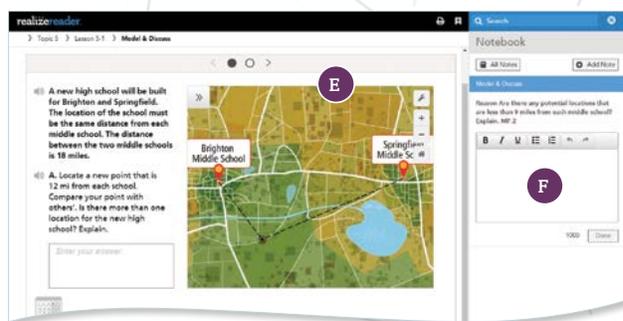
Student Edition Realize Reader

The easy-to-navigate Student Edition provides a groundbreaking digital experience with anytime—online or offline—interactive learning.

1. For review purposes, Select **Geometry** and click **Interactive Student Edition: Realize Reader: Geometry**. Select Topic 5.



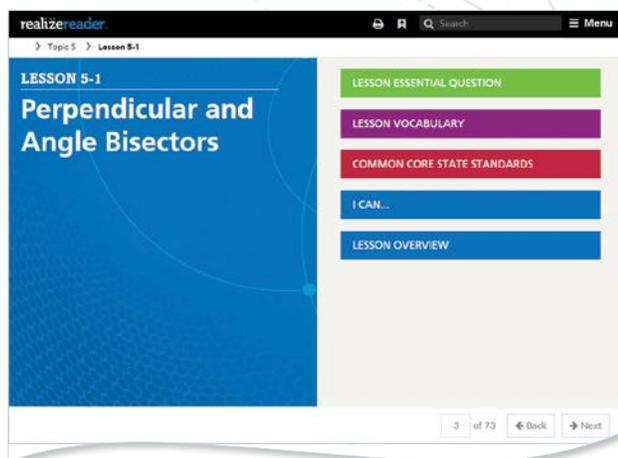
- A. Expand and collapse the tabs on the right to view Essential Question, Vocabulary, Topic Overview
- B. To view lesson content, select Topic Overview.
- C. Select Lesson 5-1: Perpendicular and Angle Bisectors
- D. Click on NEXT to turn to the next page



- E. The interactives powered by Desmos are pre-built and embedded within the student edition.
- F. Students can respond to the probing Habits of Mind questions within the integrated notebook.

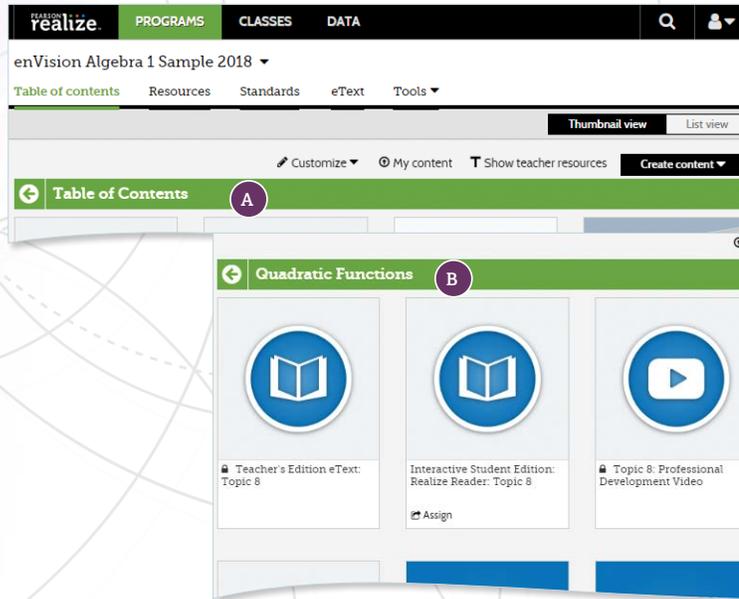
2. Page through the student edition to see all of the resources that are embedded at point of use, including:

- Pre-built Interactives powered by Desmos
- enVision STEM projects
- Mathematical Modeling in 3 Acts
- Integrated notebook to respond to Habits of Mind questions
- Annotations & Highlighting
- Bookmarks
- Anytime Tool powered by Desmos
- Additional Math Tools
- English/Spanish Glossary



Chapter Navigation

1. For review purposes, select Algebra 1.



A. The Table of contents shows Topics.

B. Choose Topic 8 Quadratic Functions.



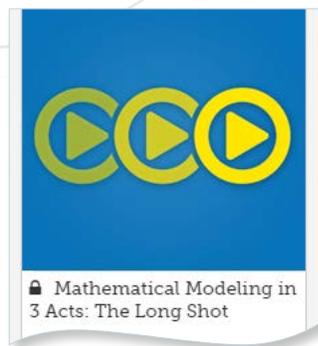
Professional Development Videos

The **enVision A|G|A** authorship team gives helpful perspective on important mathematical concepts and skills in the topic.



enVision STEM Projects

STEM Projects allow students to explore situations that address real social, economic, and environmental issues to make mathematical connections across topics.



Mathematical Modeling in 3 Acts

Make math relevant and develop patient problem solvers with lessons like Mathematical Modeling in 3 Acts.

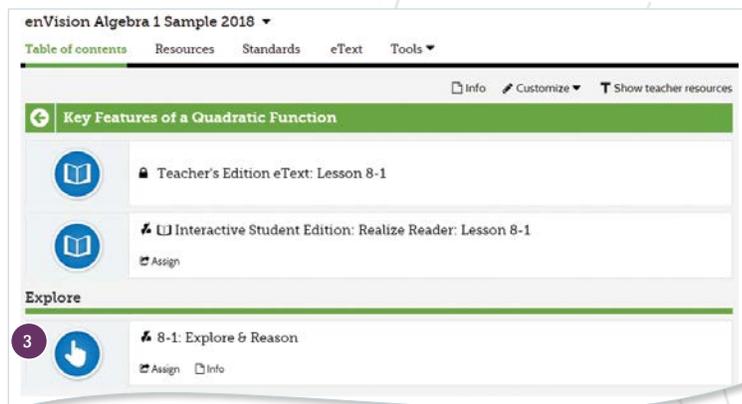


Assessment Suite

Save time with the ready-to-use diagnostic, formative, and summative assessments or build your own assignment or assessment using thousands of items, including next generation assessment tasks.

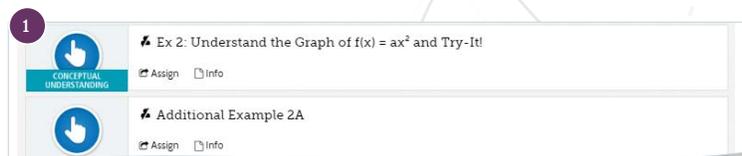
Navigating a Lesson

Step 1 - Explore

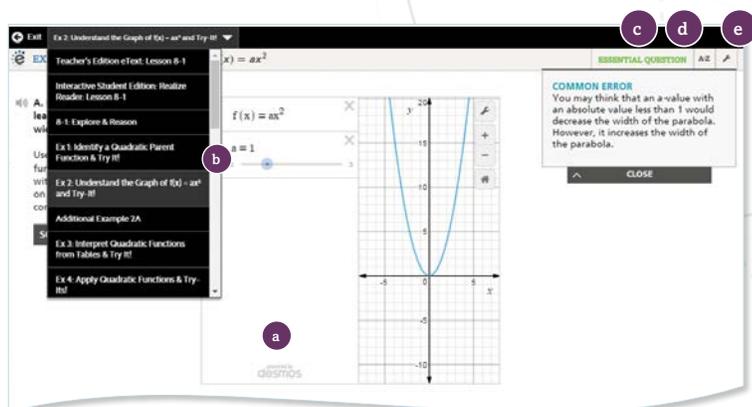


1. In **Algebra 1, Topic 8 Quadratic Functions**
2. Choose **Lesson 8-1**
3. **Step 1 - Explore:** Each lesson begins with an exploration to foster conceptual understanding through problem-solving. There are three types:
 - Explore and Reason
 - Critique and Explain
 - Model and Discuss

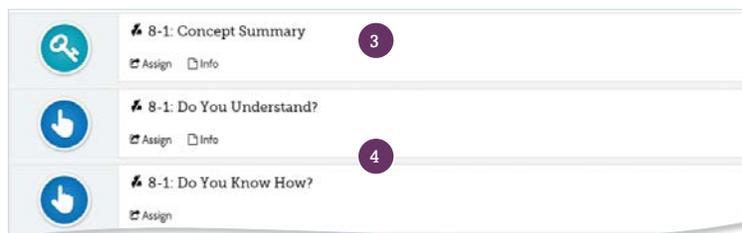
Step 2 - Understand and Apply



1. Examples are clearly labeled by type:
 - Conceptual Understanding
 - Application
 - Skill
 - Proof (Geometry)



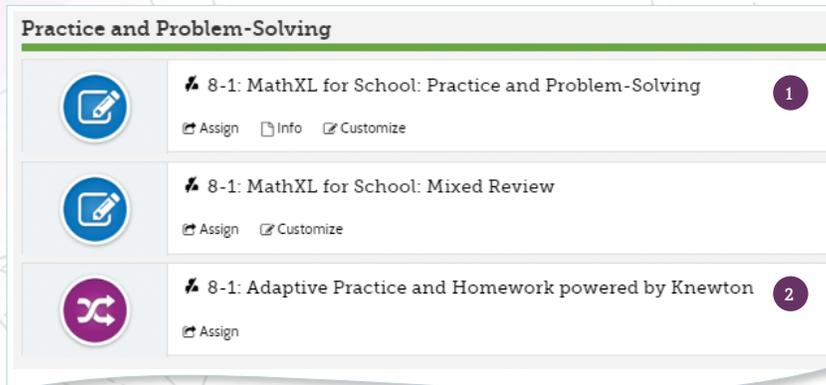
2. Click on **Example 2: Understand the Graph of $f(x) = ax^2$ and Try It!**
 - a. The interactives powered by Desmos are pre-built and ready for instruction. No hassle or prep time required!
 - b. The drop-down menu allows you to toggle between lesson launch & examples while presenting.
 - c. English-Spanish glossary
 - d. Interactive math tools, including the Anytime Tools powered by Desmos, let you easily edit and create your own activities
 - e. Printing options



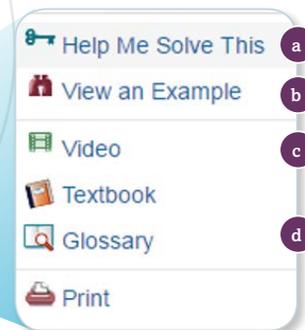
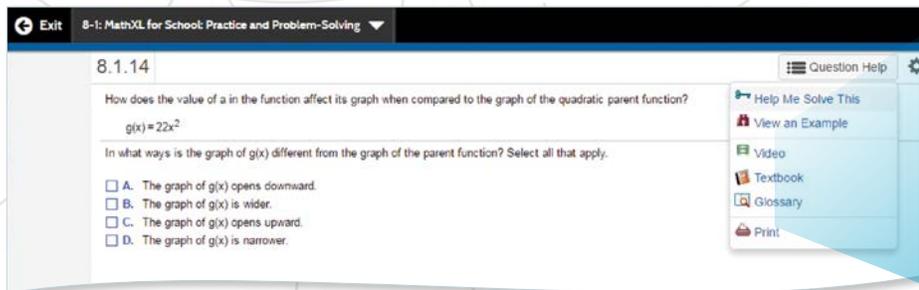
3. The **Concept Summary** provides multiple representations to consolidate student understanding.
4. End of lesson formative assessments. **Do You Understand?** assess conceptual development. **Do You Know How?** assesses procedural fluency.

Navigating a Lesson *continued*

Step 3 - Practice & Problem Solving



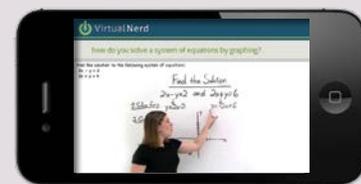
1. Select **8-1: MathXL® for School: Practice and Problem-Solving**.
2. Adaptive Practice powered by Knewton is available for every lesson.



3. The embedded *MathXL® for School* in Savvas Realize allows students to use the interactive learning aids in the Question Help for instant feedback and support.
 - a. **Help Me Solve This** requires student interaction on each step. Once the initial problem is complete, it algorithmically recalculates a new problem.
 - b. **View an Example** walks through the steps of a similar problem.
 - c. **Video** links to a Virtual Nerd Tutorial. Three different viewing windows let students review math concepts in the visual way that best helps them learn. Students can easily drill down to another video to review prerequisite content. Available with Spanish closed-captioning !
 - d. The interactive online **Glossary** provides math definitions in English and Spanish. Audio, written definitions, and examples are available in both languages.

Virtual Nerd Mobile Math App

Students can also download the **Virtual Nerd Mobile Math app** on their mobile devices for access to Virtual Nerd video tutorials. To download the Virtual Nerd Mobile Math app, follow these steps:



1. Search for **“Virtual Nerd Mobile Math”** in your app store.
2. Select to download the app

Step 4 - Assess & Remediate

Assess & Differentiate


🚩 8-1: Lesson Quiz
📄 Assign 📖 Teacher resources ⚙️ Customize 🛠️ Remediation


🚩 8-1: MathXL for School: Reteach to Build Understanding
📄 Assign ⚙️ Customize


🚩 8-1: Reteach to Build Understanding (PDF)
📄 Assign 📖 Teacher resources

1. When teachers choose to assign a digital, auto-graded **Lesson Quiz**, the system gives you the option to automatically assign a differentiation assignment.

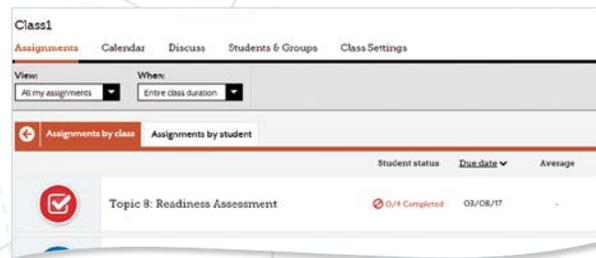
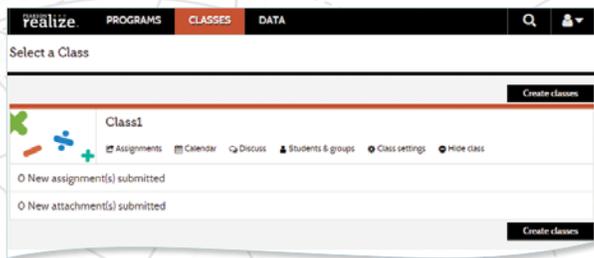
DIFFERENTIATION LIBRARY	DIGITAL	PDF
Reteach to Build Understanding	X	X
Enrichment	X	X
Additional Practice	X	X
Mathematical Literacy & Vocabulary		X
Virtual Nerd Tutorials	X	



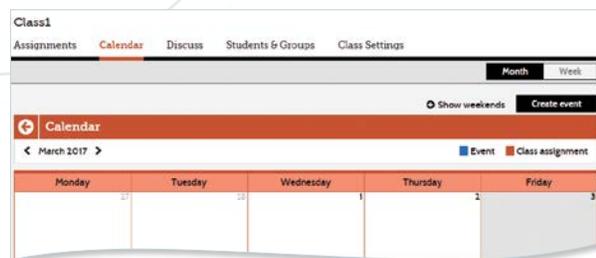
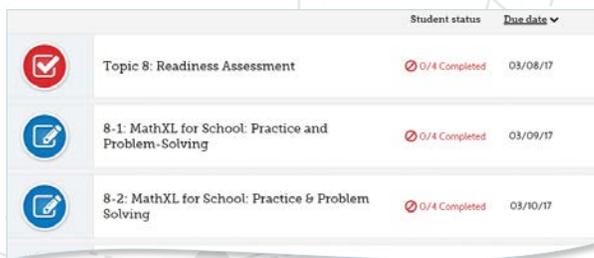
Classroom Management Resources

Manage Assignments and Classes

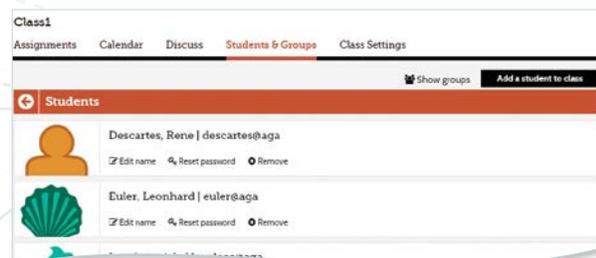
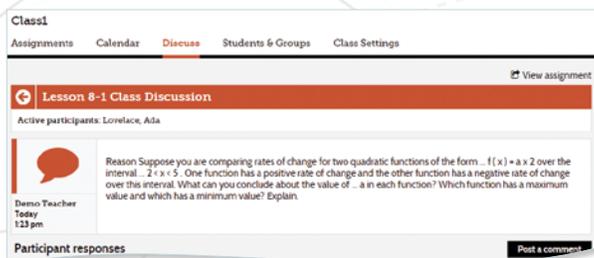
1. Use the links under the name of each Class to manage assignments, the calendar, students and groups, and class settings.
2. Click on **Assignments** to view assignment status for the class.



3. Click on the assignment link to view status for the class or each student. Make edits to the assignment and preview the assignment on the right.
4. Click on **Calendar** to view all class assignments by week or month.



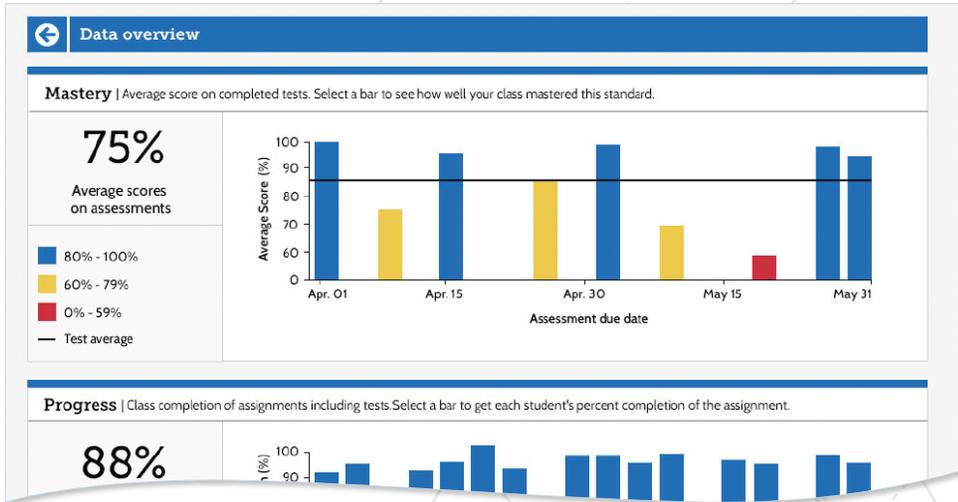
5. Click on **Discuss** to create a prompt for a class discussion.
6. Click on **Students & Groups** to view student information, add students, and view assignments.



Data

Track, Record, and Analyze Data

1. Click on **Data** to view student data based on assigned work.



2. Click on **Class Name** to view assessment items and monitor scores.

PEARSON realize PROGRAMS CLASSES **DATA** 🔍 👤

Select a Class

Class1

Class results by assignment
 Class mastery by standard

1 out of 4 student(s) signed in

3. Instantly access student and class data that shows standards coverage and mastery, online activity, and overall progress

Gerstad, Lauren	🚫 Past due	🚫 Not Started	—
Hedges, Jordan	🚫 Past due	🔄 In Progress	—
Kahus-Saccio, Quinn	09/12/13	✅ Completed	90%

4. Click to reveal more detailed information about student mastery, progress, and usage.

Andy Adams	80% (8/10)	1/1	1/2	1/1	1/1	0/1	1/1	1/1
Butcher Baker	90% (9/10)	1/1	2/2	1/1	1/1	1/1	1/1	0/1

The logo features the word "enVision" in a white sans-serif font with a trademark symbol. The "e" is lowercase and has a cluster of blue dots to its left. To the right of "enVision" are three large, white, outlined letters: "A", "G", and "A", each separated by a vertical line. Below these letters are the labels "Algebra 1", "Geometry", and "Algebra 2" respectively.

enVision™ A | G | A
Algebra 1 Geometry Algebra 2

To learn more, visit [Savvas.com/enVisionAGA](https://www.savvas.com/enVisionAGA)

SAVVAS
LEARNING COMPANY

[Savvas.com/enVisionAGA](https://www.savvas.com/enVisionAGA) 800-848-9500

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ADV: 9780328983360

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[Facebook.com/enVisionAGA](https://facebook.com/enVisionAGA)

Get Fresh Ideas for Teaching:

[Blog.PearsonSchool.com](https://blog.pearsonschool.com)