

A new vision for High School Mathematics

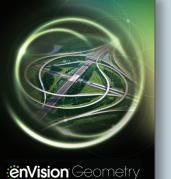
Algebra 1 Geometry Algebra 2

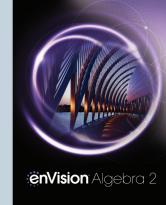


# Realize the power of envision AGA Algebra 1 Geometry Algebra 2

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







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Student Experience

**Teacher Experience** 

Demo Account Set Up

Home Page

Navigating the eText

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Navigating a Lesson

Managing Classes

Track & Analyze Data



### Go Digital

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

**Blended Instruction** 

### **Experience Math Work with Ease**

enVision A|G|A provides Our simple-to-use program a wealth of multimedia and allows you to quickly find interactive content to explain and assign content to and reinforce complex mathematical concepts.

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.



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

# **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.

answer the question.

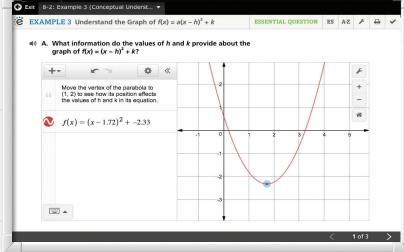
Help Me Solve This	
View an Example	
Video	i≣ Custion He
Clossary	Determine the
✗ Math Tools ➡ Print	weeke instructions to create your graph.
3 interanting	Chear AB
	how do you graph a quadratic function?

# desmos

### **Active Learning**

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

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



#### Act 2: Model with Math

Students determine what resources they need and develop a solution to

#### Act 3: Model with Math



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

### 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<sup>®</sup> 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  $f(x)=\left(rac{2}{3}
ight)^x$  for x=-3 and x=0 . Drag the correct solution to each box.

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  $-\frac{1}{9}$ 

C. The slope of the perpendicular bisector is 2

D. The slope of the segment is  $-\frac{1}{2}$ 

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

E. The distances from the endpoints of the segment to any point on the perpendicular bisector are equal.

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

f(0) =

🚱 eText	
	Interactive Student Edition: Realize Reader: Geometry
	Teacher's Edition eText: Geometry
	Ex 3: Model with Exponential Functions & Try It!
	ile from your computer
<ul> <li>Insert a lini</li> <li>+ Add a title</li> </ul>	~ Exponential Growth and Decay Models
	te for your students

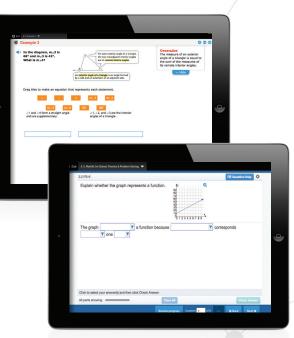
### **Assess and Differentiate**

#### **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 Instruction example



Digital Intervention Practice exercise

### **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

#### ELL English Language Learners (Use with EXAMPLE 4)

LISTENING BEGINNING Explain that as a noun, graph means a diagram that presents 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 hrase refers to a graph as a noun and to sit if the it refers to graph as a verb. profits are shown on a graph. [noun] : Please graph the line y = x. [verb]

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 relate [evaluate is the process used to find the value of an expre

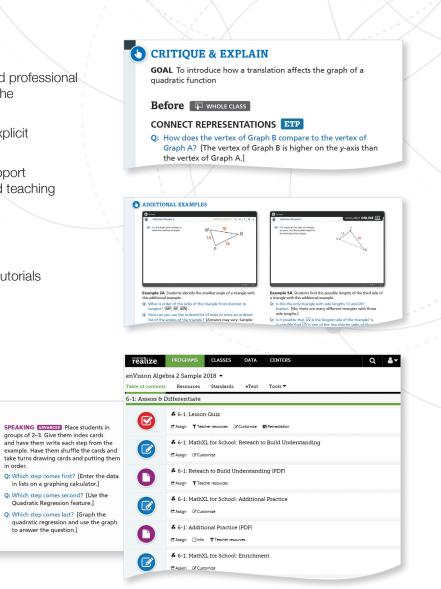
to answer the question.]

in order.

O: Which ste

### **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.



### DEMO ACCOUNT SET UP

# Experience enVision A|G|A online!

## Review online resources. Sign up for **Savvas Realize**™

- 1 Type **"SavvasRealize.com"** in your browser bar and select **Sign In** on the top right.
- 2 Type in the **Username** and **Password** from below, then select **Sign In**.

User Name: MSReviewer@enVisionAGA Password: Reviewer1

Savvas Sign In

MSReviewer@enVisionAGA

Forgot your username or password?

K

Username

Password Reviewer1

2

Both the username and password are case sensitive.

You now have access to **enVision A|G|A** content — explore and enjoy.



Help

Sign In →

# A New Vision for High School Mathematics



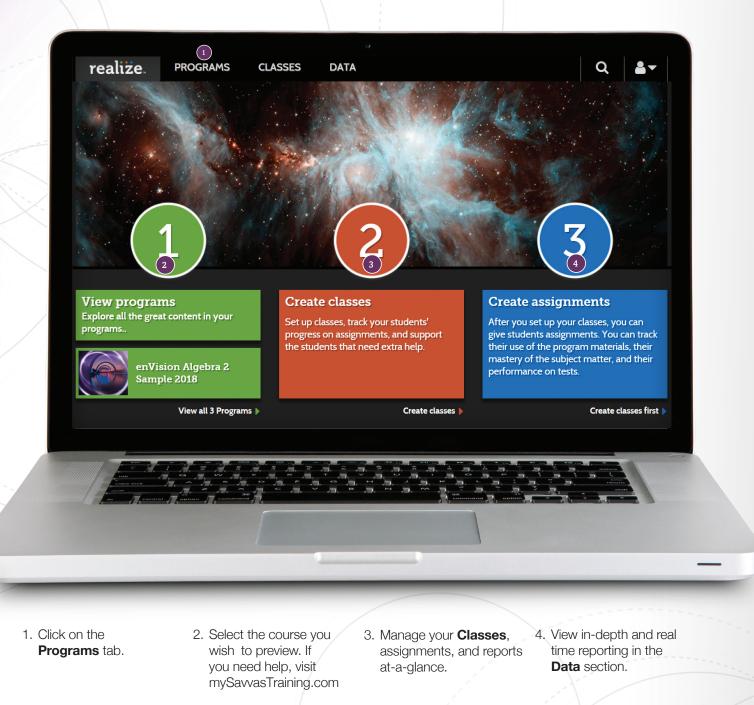
Select the **Program** to review.

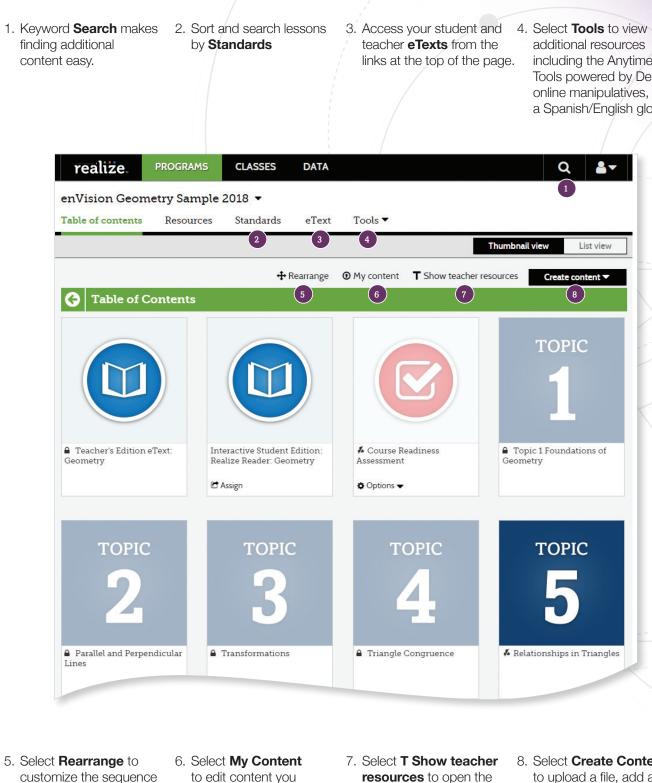


realize.	PROGRAMS CLASSES DATA		Q ?▼ ≛▼
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	Interactive Student Edition: Realize Reader: Algebra 2		My Content
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	Beginning-of-Year Assessment		
	🖻 Assign 🗅 Info 🕇 Teacher resources 🕼 Customize		
торіс	Linear Functions and Systems	,	
торіс <b>2</b>	4 Quadratic Functions and Equations	>	
- 2			
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#### **Table of Contents**

# **Your Home Page**





of the curriculum. previously created.

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additional resources including the Anytime Tools powered by Desmos, online manipulatives, and a Spanish/English glossary.

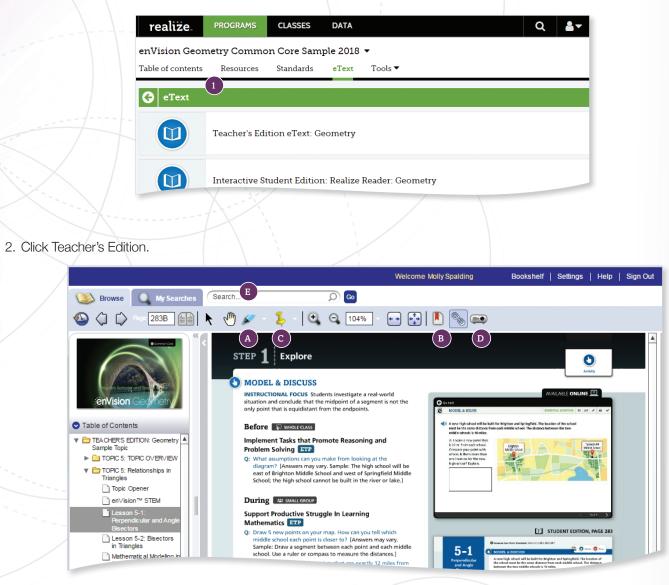
- resources to open the side panel with additional teacher resources.
- 8. Select Create Content to upload a file, add a link, or build a test.

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

### NAVIGATING THE eTEXT

# **Teacher Edition eText**

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

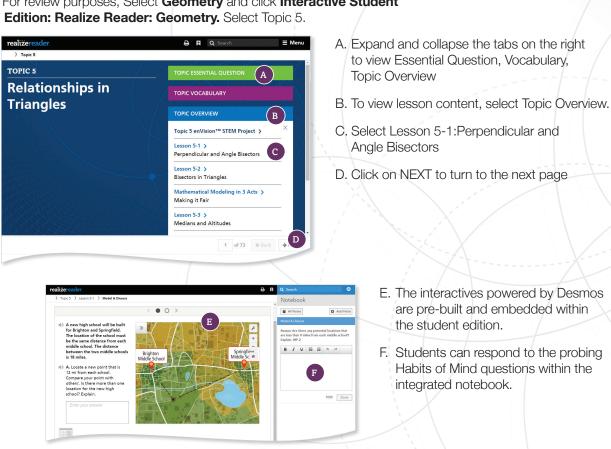


- A. Highlighting
- B. Bookmarks
- C. Sticky Notes Annotations
- D. Projector View
- E. Search



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



- 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

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# **Student Edition Realize Reader**

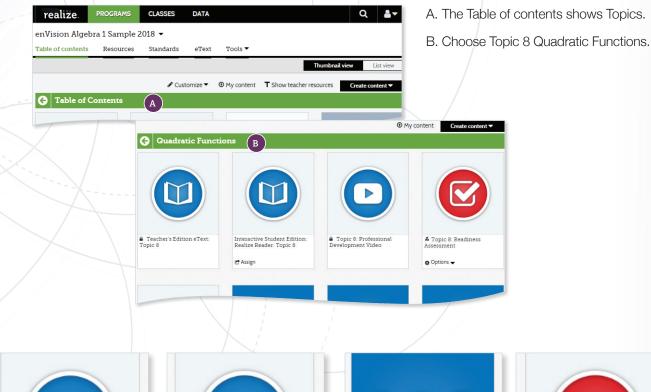
F. Students can respond to the probing Habits of Mind questions within the

ealizereader.		🖨 🛱 Q Search 🗮 Ment
> Topic 5 > Lesson 5-1		
ESSON 5-1		LESSON ESSENTIAL QUESTION
Perpendicular and Angle Bisectors		LESSON VOCABULARY
		COMMON CORE STATE STANDARDS
	X	I CAN
		LESSON OVERVIEW
		3 of 73 🔶 Back 🏼 🔶 Next

### **NAVIGATING A TOPIC**

# **Chapter Navigation**

1. For review purposes, select Algebra 1.



Topic 8: Professional Development Video

#### Professional **Development Videos** STEM Projects

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



# enVision

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**

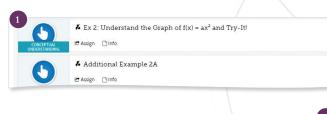
Save time with the readyto-use diagnostic, formative, and summative assessments or build your own assignment or assessment using thousands of items, including next generation assessment tasks.

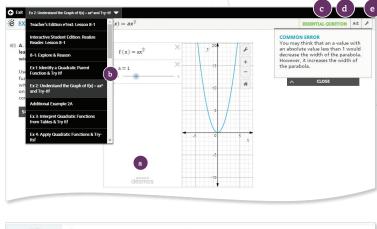
# Navigating a Lesson

**Step 1 - Explore** 

enVision Algeb Table of contents		Standards		Tools 🔻			
lable of contents	Resources	Standards	eText	Tools ▼			
					🗅 Info	🖋 Customize 🔻	T Sh
🚱 Key Featu	res of a Quad	lratic Funct	ion				
	€ Teacher's I	Edition eText:	Lesson 8	-1			
	🖡 🗊 Interact	ive Student E	dition: Re	alize Read	ler: Less	on 8-1	
	C Assign						
Explore							
3	🖡 8-1: Explor	e & Reason					
	🖻 Assign 🗋 Info						

# **Step 2 - Understand and Apply**





<b>Q</b>	<ul> <li>▲ 8-1: Concept Summary</li> <li>➡ Assign □Info</li> </ul>	3
0	& 8-1: Do You Understand? ☞ Assign 🗋 Info	4
0	≰ 8-1: Do You Know How? € Assign	

teacher resource

- 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

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

#### 2. Click on Example 2: Understand the Graph of f(x) = ax2 and Try It!

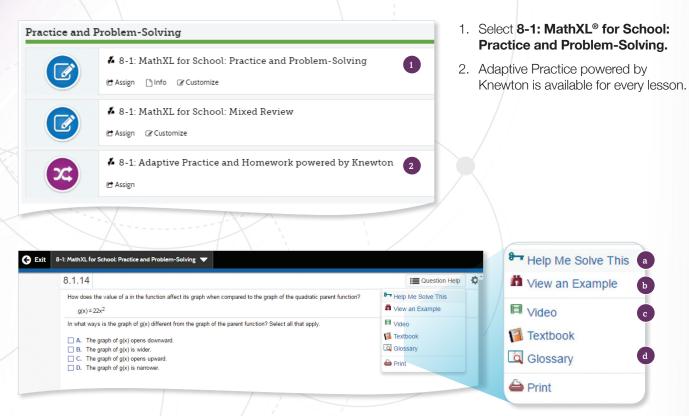
- a. The interactives powered by Desmos are pre-built and ready for instruction. No hassle or prep time required!
- b. The drop-down menu allows you to toggle between lesson launch & examples while presenting.
- English-Spanish glossary C.
- d. Interactive math tools, including the Anytime Tools powered 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.

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### **NAVIGATING A LESSON**

# Navigating a Lesson continued

## **Step 3 - Practice & Problem Solving**



- 3. The embedded *MathXL<sup>®</sup>* 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 de initions in English and Spanish. Audio, written definitions, and examples are available in both languages.

#### Virtual Nerd Mobile Math App

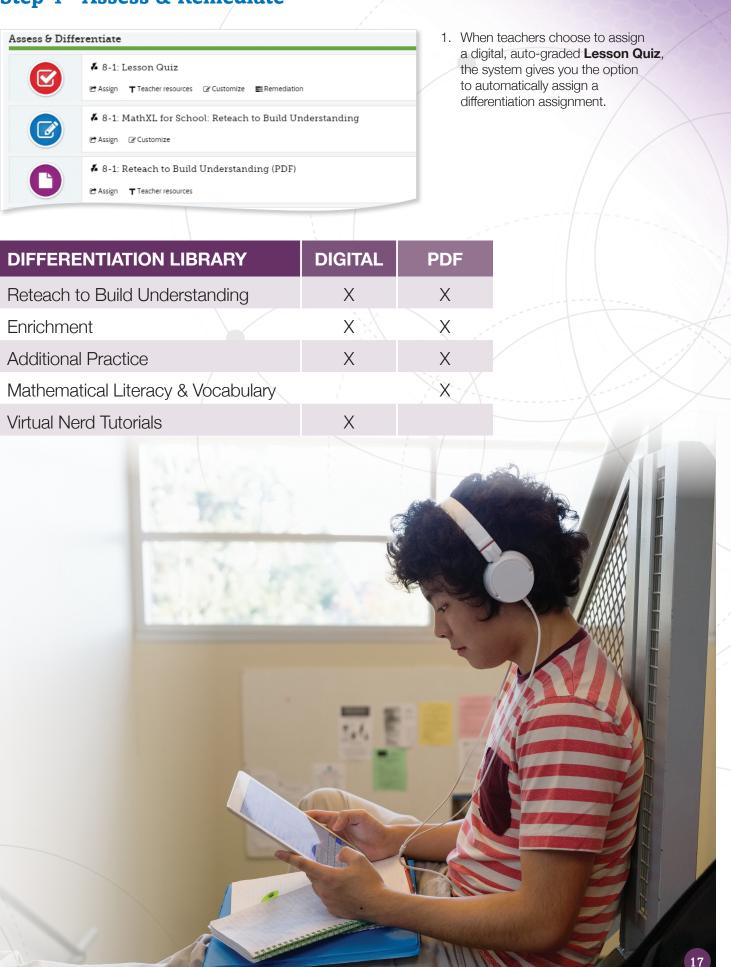
Students can also download the Virtual Nerd Mobile Math app on their mobile devices for access to Virtual Nerd video tutorials. To download the Virtual Nerd Mobile Math app, follow these steps:



1. Search for "Virtual Nerd Mobile Math" in your app store.

2. Select to download the app

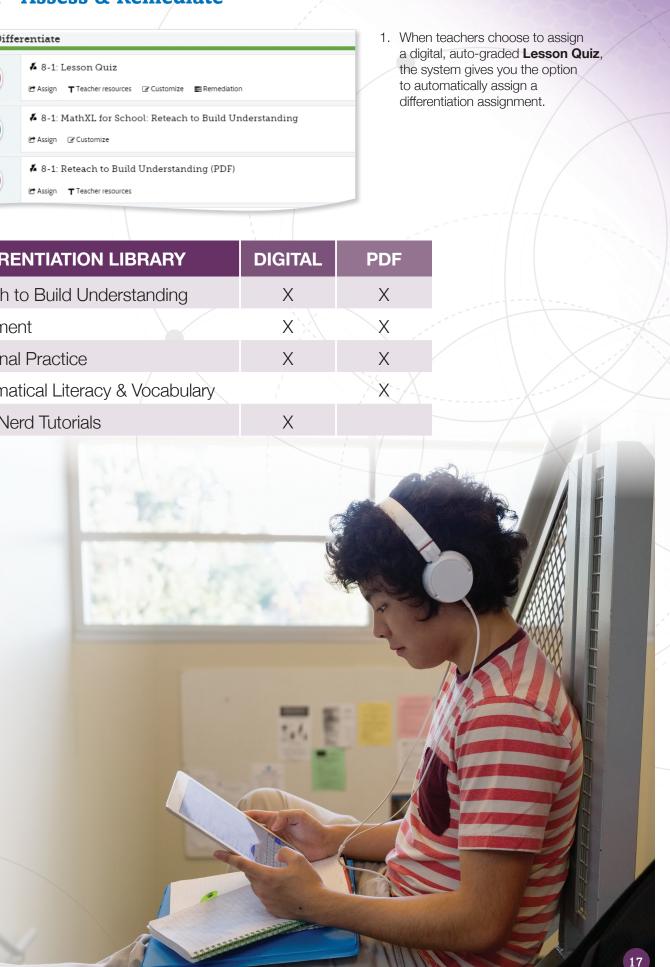
### Step 4 - Assess & Remediate



### **DIFFERENTIATION LIBRARY**

Enrichment

Additional Practice



# Classroom **Management Resources**

Class

## **Manage Assignments and Classes**

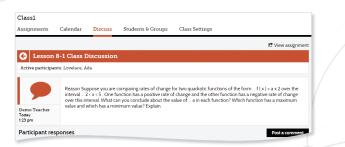
1. Use the links under the name of each Class to manage assignments, the calendar, students and groups, and class settings.

Class1					SSES DA	PROGRAMS CLA	ëalize
Class1							ect a Class
🖉 😽 🖞 Assignments 🛗 Calendar 🔾 Discuss 🛦 Students & groups 💿 Class settings 💿 Hide class	Create classes						
						Class1	
New assignment(s) submitted		<ul> <li>Hide class</li> </ul>	Class settings	🛔 Students & groups	dar 😋 Discuss	😁 Assignments 🛛 🛗 Calenc	/ <b>*</b> +
						t(s) submitted	New assignmen
New attachment(s) submitted						t(s) submitted	New attachmer
Create cla	Create classes						

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.

		Student status	<u>Due date</u> ∨	
	Topic 8: Readiness Assessment	0/4 Completed	03/08/17	
	8-1: MathXL for School: Practice and Problem-Solving	0/4 Completed	03/09/17	
	8-2: MathXL for School: Practice & Problem Solving	Ø 0/4 Completed	03/10/17	
<			_	

5. Click on **Discuss** to create a prompt for a class discussion.



2. Click on **Assignments** to view assignment status for the class.

	Topic 8: Readiness Assessment	0/40	Completed	03/08/17	-
-					1

Due date 🗸

Entire class duration

Assignments by student

4. Click on **Calendar** to view all class assignments by week or month.

ssignments	Calendar	Discuss	Student	s & Groups	Class Settings			
							Mo	nth Week
						O Show	weekends	Create event
Calenda	ar					O Show	weekends	Create event
								Create event
	>	Tuesday		Wednesday				
<ul> <li>March 2017</li> </ul>	>	Tuesday	28	Wednesday	1			Class assignme

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.

Data overview     Mastery   Average score on	a completed tests. Select	a bar to see ho	w well your (	class mastere
<b>75%</b> Average scores on assessments  80% - 100% 60% - 79% 0% - 59% Test average	100 90 - 80 - 80 - 70 - 70 - 60 - 0 - Apr. 01	A	pr. 15	A Assessn
Progress   Class completio	n of assignments includi	ng tests.Select a	a bar to get o	each student's
Click on <b>Class</b>	Name to vi	ew asse	essme	nt item
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Instantly access and mastery, or				
Gerstad, Lauren				
Hedges, Jordan				
Kahus-Saccio, Quinn				
. Click to reveal r and usage.	nore detaile	d inform	ation	about :

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

cent completion of the assignment. and monitor scores. Q 💁 vs standards coverage Past due Ø Not Started Past due () In Progres 09/12/13 Completed

udent mastery, progress,

	1/1
1/1	0/1
	1/1











# Try it today! www.Savvas Realize.com

Username: MSReviewer@enVisionAGA Password: Reviewer1

For more information, please contact your Savvas MISSISSIPPI Account General Manager:

#### **JACK JENNINGS**

Account General Manager 601-842-3749 jack.s.jennings@savvas.com



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