

enVision A|G|A © 2024 Assessment

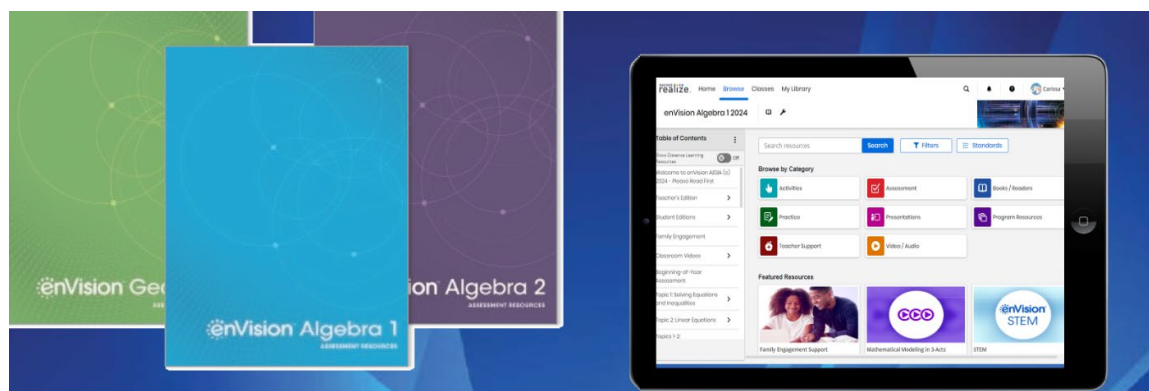
Introduction



In this tutorial, we will explore the assessment resources available in **enVision A|G|A**.

First, we will examine the diagnostic, formative, and summative assessments built into the program. Then we will look at additional assessment resources, opportunities for assessment practice, and assessment data on Savvas Realize™.

Planning for Assessment



Assessment Resources Book

Savvas Realize™

Online Assessments

- Auto-scored
- Customizable

Effective assessment begins with planning in the *Teacher's Edition Program Overview*. In this book, you will find a chart that lists the print and digital assessment resources.

The chart provides an overview of the diagnostic, formative, and summative assessments available to help you plan instruction and monitor your students' progress.

These assessments are available in your *Assessment Resources* book as well as online via Savvas Realize. The online assessments are auto-scored to save you time. You can also customize the assessments to meet your instructional needs. To download, customize, and print the assessments, go to Savvas Realize.

Diagnostic Assessment

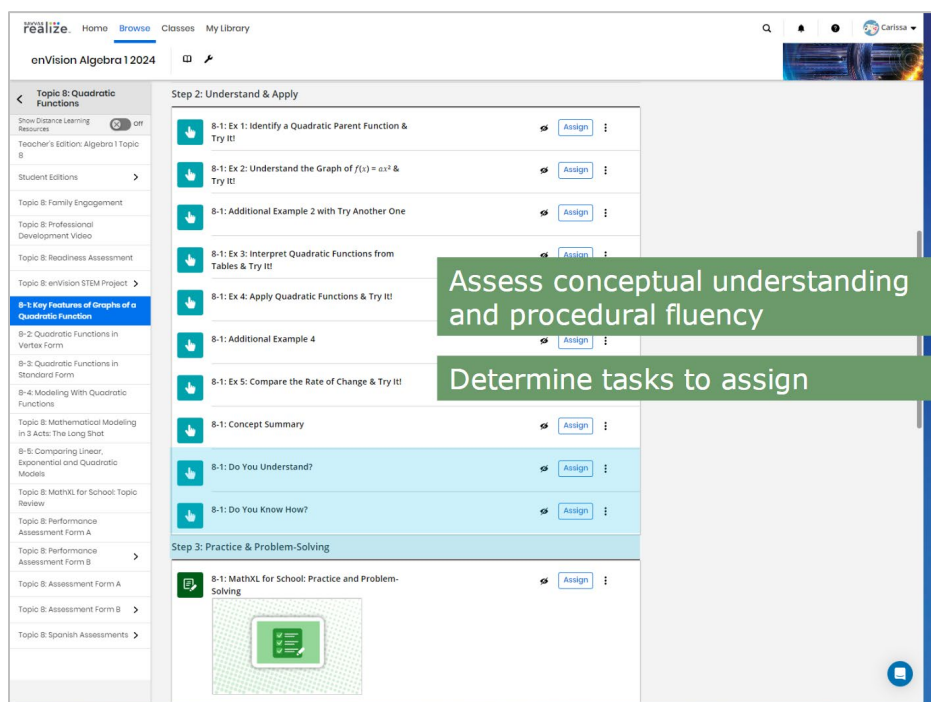
The screenshot displays the Savvas Realize interface for the enVision Algebra 1 2024 course. The top navigation bar includes 'Home', 'Browse', 'Classes', and 'My Library'. A search bar and filters are visible. The 'Browse by Category' section offers various resource types: Activities, Assessment, Books / Readers, Practice, Presentations, Program Resources, Teacher Support, and Video / Audio. The 'Featured Resources' section highlights 'Family Engagement Support', 'Mathematical Modeling in 3-Acts', and 'STEM'. A prominent blue banner at the bottom states 'Diagnose areas of strength and weakness'.

Assessment support starts at the beginning of the year with diagnostic assessments.

Use the Beginning-of-the-Year Assessment, available in print and online, to diagnose students' areas of strength and weakness at the beginning of the year. You can use the results to prescribe differentiated intervention, organize small groups, and prepare for prerequisite instruction.

At the start of each topic, use the Topic Readiness Assessment to determine students' proficiency with topic prerequisite concepts and skills. Students can take these diagnostic assessments on Realize where they are auto-scored and intervention is auto-assigned.

Formative Assessment



Monitor your students' progress throughout each lesson with a variety of formative assessments. At the start of each lesson, in the Teacher's Edition, you'll find suggested questions based on the Effective Teaching Practices (ETPs). This guidance will help you check student understanding before, during, and after the problem-based lesson opener.

During the visual instruction portion of the lesson, use the Try It! exercises to assess students' understanding of concepts and skills presented in each example. You can use the results to modify instruction as needed.

Next, use the Do You Understand? and Do You Know How? questions to verify comprehension. You can use your students' responses to assess their conceptual understanding and procedural fluency and to determine what types of tasks to assign in the next part of the lesson.

Use the Assignment Guide and Item Analysis sections to assign Practice & Problem Solving items in the Student Edition or online. On Realize, you can assign lesson practice powered by MathXL for School or Adaptive Practice.

At the end of each lesson, administer the Lesson Quiz to assess students' understanding of the lesson's skills and concepts.


The online version of the Lesson Quiz is auto-scored, and you can choose to have Realize automatically assign intervention or enrichment based on the results. Using the results of the Lesson Quiz, prescribe differentiated resources using the Item Analysis and Rtl guidance in the Teacher's Edition.

Summative Assessment

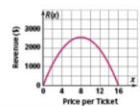
Name _____ enVision Algebra 1
SavvasRealize.com

8 Performance Assessment Form A

A high school drama club is selling tickets for a fundraiser event. Based on data from past events, the number of tickets sold can be modeled by the linear function $Q(x) = -40x + 640$, where x is the price, in dollars, of each ticket.



- What are a reasonable domain and a reasonable range for function Q ? Explain.
Domain: $0 \leq x \leq 16$; range: $0 \leq Q(x) \leq 640$; prices and the numbers of tickets sold need to be positive numbers.
- The revenue R can be modeled by multiplying the ticket price x by the number of tickets sold. Write a quadratic function R that correctly represents that model. Justify your answer.
 $R(x) = x(-40x + 640) = -40x^2 + 640x$
- Graph function R below. Label the vertex. What does the vertex represent in this context? Explain.



The vertex is (8, 2,560). The vertex represents a maximum for the function, so the greatest revenue is earned when the price is \$8 per ticket. The maximum revenue that can be generated is \$2,560.

enVision Algebra 1 | **1072** | Assessment Sourcebook

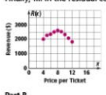
Topic Performance Assessments:

- Evaluate students' ability to apply concepts and math practices
- Include multi-step questions
- Require problem-solving skills

4. The table on the right shows ticket prices and actual revenues from past events.

Price	Actual Revenue (\$)	Predicted Revenue (\$)	Residual
4	2,012	1,920	92
5	2,275	2,220	75
6	2,382	2,400	-48
7	1,506	2,520	-144
8	2,816	2,560	56
9	2,539	2,520	9
10	1,130	2,400	-1,270
11	2,079	2,200	-121
12	1,824	1,920	-96

Part A
Plot the given data (price, actual revenue) on the graph below. Then use the model you wrote in Item 2 to fill in the predicted revenue column in the table. Finally, fill in the residual column.



Part B
The drama club president tries a different model for the data, $P(x) = -41x^2 + 630x$, where P is the predicted revenue given a ticket price of x dollars. Compare that model and the model you found in Item 2 by graphing the residuals. Which model is a better fit for the data? Justify your answer.
Check students' graphs. Sample answer: Function R is a better model than function P . When the residuals for both models are plotted on a coordinate graph, the average distance of function P 's residuals from the line $y = 0$ is 64.6, and the average distance of function R 's residuals is 69.7.

Part C
Use a graphing calculator to find a quadratic regression model A for the actual revenue amounts shown in the table in Part A. Make a conjecture about the fit of your model.
 $A(x) = -41x^2 + 626x + 136$; the equation models the data well, because the R^2 value is close to 1.

enVision Algebra 1 | **1072** | Assessment Sourcebook

Summative assessments are available to evaluate your students' learning at the end of a topic or group of topics.

At the end of each topic, have students work through the Topic Review. Then assess their conceptual understanding and procedural fluency with topic content using the Topic Assessment. Use the Item Analysis guidance in the Teacher's Edition and the reports on Realize to evaluate student progress.

Assess students' ability to apply concepts and the math practices with the Topic Performance Assessment. This assessment includes multi-step questions that require students to use their problem-solving skills. Find the Item Analysis and Scoring Guide in your Teacher's Edition.

After a group of topics, assess students' understanding of and proficiency with concepts and skills using Benchmark Assessments and the Mid-Course Assessment. Use the results of these cumulative assessments to determine whether students have mastered the content of the last several topics. When students take these assessments online, they are automatically assigned remediation or enrichment.

At the end of the year, assess students' understanding using the End-of-Course Assessment. Use data from this assessment to evaluate your students' mastery of the standards covered throughout the course.

Practice Exercise

Diagnostic	Formative	Summative
Drag Here	Drag Here	Drag Here

Take a moment to review what you have learned. Sort each assessment type by its correct category: Diagnostic, Formative, or Summative.

- Topic Performance Assessments
- Try It!
- Topic Readiness Assessments
- End-of-Course Assessment
- Lesson Quizzes
- Beginning-of-Year Assessment
- Do You Understand? /Do You Know How?
- Topic Assessments
- Mid-Course and Benchmark Assessments

Correct Feedback

Diagnostic	Formative	Summative
Beginning-of-Year Assessment ★	Lesson Quizzes ★	Topic Performance Assessments ★
Topic Readiness Assessments ★	Try It! ★	End-of-Course Assessment ★
Drag Here	Do You Understand?/Do You Know How? ★	Topic Assessments ★
		Mid-Course and Benchmark Assessments ★

Here are the correct answers.

Additional Assessment Options

The screenshot shows the Savvas Realize interface for 'enVision Algebra 1 2024'. The main content area displays 'Topic 8: Readiness Assessment' with a 'Start' button. A 'Customize' dropdown menu is open, showing options: 'Customize', 'Remediation', 'Teacher Resources', and 'Information'. Three green callout boxes are overlaid on the right side of the page, pointing to the 'Customize' menu options: 'Change settings', 'Add or remove questions', and 'Modify questions and answer choices'.

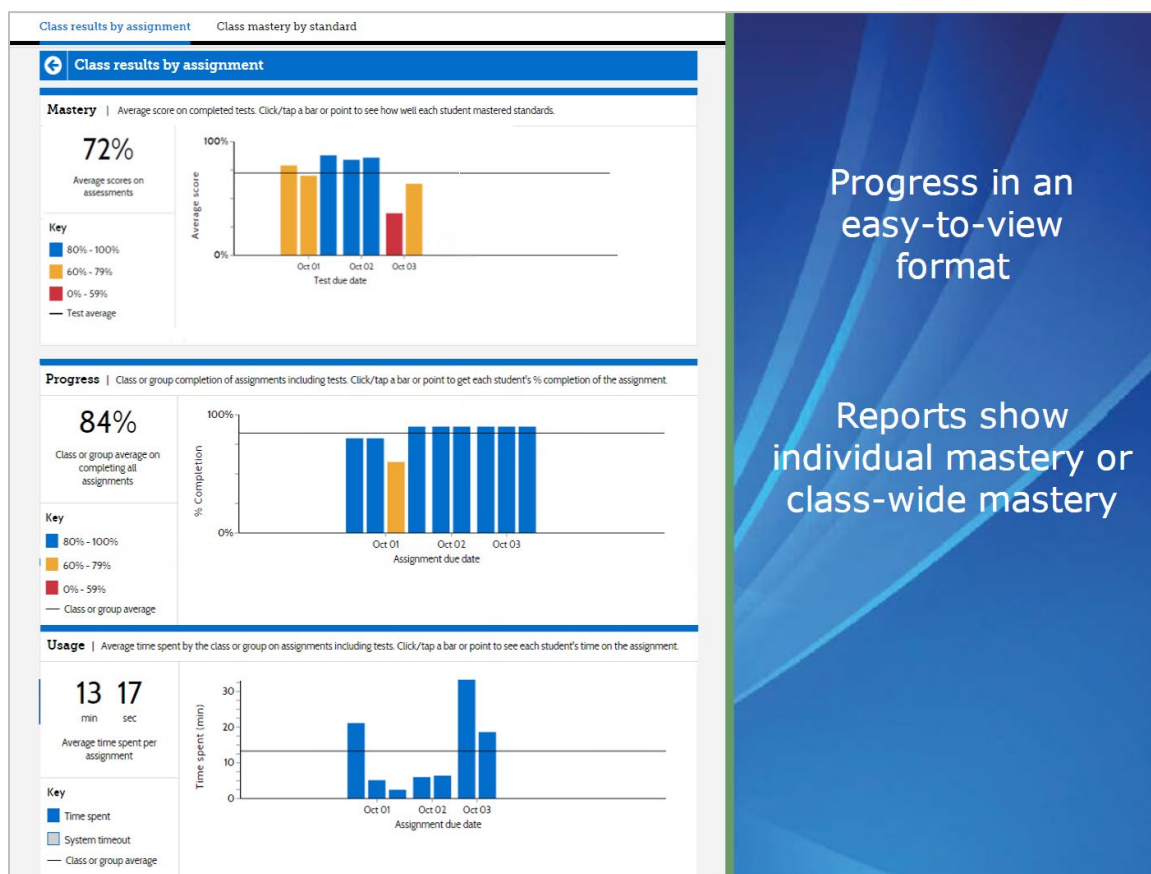
You can customize online assessments to meet your instructional needs. On Realize, you can change settings, add or remove questions, and modify questions and answer choices.

To explore these options, select **Customize** for a given assessment. Modify the title, the description, and whether the test should count toward mastery.

To add questions to the assessment, click **Add items from test bank**. This option allows you to search a bank of test items by standard or keyword.

You also have the option of adding your own content. To get started, select **Create content** from the Table of Contents or topic-level screen. From the drop-down menu you can upload files, add links, or build your own tests.

Assessment Data



Progress in an
easy-to-view
format

Reports show
individual mastery or
class-wide mastery

Take advantage of the reports on Realize to evaluate your students' progress and plan future instruction. You can access a variety of auto-generated assessment reports. Individual and class views of progress are provided in an easy-to-view format. Standards mastery reports show individual student mastery or class-wide mastery for each standard..

Closing

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

Assessment resources

Thank you!

For additional enVision A|G|A tutorials, visit
my **SAVVAS** Training

Thank you for watching this tutorial about the **enVision A|G|A** assessment resources.