enVision Integrated MATHEMATICS

Explore *enVision* **Integrated Teacher Toolkit**

My Resources

Smart Start
Wonder what you should do first and prepare to teach with **enVision Integrated**? Use this Smart Start tool!

Online Support
Would you like to learn more about the digital resources that are apart of **enVision Integrated**? Review the tutorials and support available on MySavvasTraining.com.

Pacing & Planning Support
Want to know more about pacing your semester and school year? Check out some great resources in the *Teacher's Edition Program Overview* that can help you plan and pace your instruction.

www.mySavvasTraining.com
A one-stop, 24-hour training website with thousands of Savvas resources

www.SavvasRealize.com
A web-based portal with full, digital access to the program

How to Get Support

Online Courses
Prepare for day one and beyond, as you navigate through print and digital program features at your own pace.

Technical Support
For help with logging in to Realize or EasyBridge, finding a missing program, class rostering, or initial Realize setup, access Technical Support.

CALL
1-800-848-9500

Program Support
For questions on your program curriculum and how to use it with your students, engage in a chat session or leave a message for an Educational Specialist.

Note: In order for the links in this document to work, you must add **mySavvasTraining.com** to your trusted sites list.

Smart Start | **Where to Begin**

Use this guide to start your enVision Integrated learning journey.

⟫ DIG into resources

Familiarize yourself with the components.

- **TEPO:** Read the From the Authors sections.
- **SE:** Check out the layout of student pages.
- **RLZ:** Explore the Table of Contents, tools, and search features.
- **TE:** Review the Topic and Lesson supports and guideance.

⟫ TOUR the program

- **TEPO:** Read **Using a Lesson** in the User's Guide.
- **RLZ:** Review the instructional resources available under the Teacher Resources and Tools menus.
- **myST:** To view all resources, go to the On-Demand Training tab. Watch some of the tutorials or explore a asynchronous course.

⟫ Prepare & Plan for instruction

- Review the **Pacing Guide** and **Correlations** information in the *Teacher's Edition Program Overview*.
- In your Teacher's Edition, plan using the **Topic Overview** resources:
  - Review the **Topic Readiness Assessment** and **Skills Review & Practice** activities.
  - Examine the **Math Background** and **Topic Planner** pages. How can these be used in your planning decisions?
  - Review the **Topic Opener** to find out more about the **Essential Question** and **Mathematical Modeling in 3 Acts** tasks for the topic.
  - Investigate the **enVision STEM** project for the topic, think about how you might use this activity in your classroom.
- Establish a routine for using devices in your classroom.
- Work with a partner or group to customize and share a **Topic Assessment** or customized **Lesson** with a playlist.

Key

TEPO — Teacher's Edition Program Overview

SE — Student Edition
myST- mySavvasTraining.com
RLZ - savvasrealize.com

The *Teacher's Edition Program Overview* gives you information about pacing **enVision Integration.** The Pacing For Success Guide contains pacing recommendations for Traditional and Block schedules including lessons, Mathematical Modeling in 3 Acts tasks, and **enVision** STEM projects. You'll find more topic and lesson specific planning support in your *Teacher's Edition.*

PACING FOR SUCCESS
enVision Integrated MATHEMATICS I

enVision Integrated Mathematics I was designed to provide students rich opportunities to build understanding of important new mathematical concepts and develop fluency with key skills, and to gain proficiency with the habits of mind and thinking dispositions that are the hallmark of mathematicians. To achieve these goals, the program includes content-focused lessons, Mathematical Modeling in 3 Act tasks, and **enVision**® STEM projects. All three of these instructional activities are integral to helping students achieve success, and the pacing of the program reflects this.

This pacing guide shows recommended pacing for both a 45-minute (Traditional) and a 90-minute (Block) math class. The pacing allows for an additional 2–3 days per topic to be spent on

Topic 1	Solving Equations and Inequalities
1-1	Solving Linear Equations
1-2	Solving Equations With A Variable on
1-3	Literal Equations and Formulas
1-4	Solving Inequalities in One Variable
CCO	**Mathematical Modeling in 3 Acts**
1-5	Compound Inequalities
1-6	Absolute Value Equations and Inequalities
	enVision STEM project
Topic 2	Linear Equations
2-1	Slope Intercept Form
2-2	Point Slope Form
2-3	Standard Form
CCO	**Mathematical Modeling in 3 Acts**
2-4	Parallel and Perpendicular Lines
	enVision STEM project

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TOPIC 1
Solving Equations and Inequalities

MATH BACKGROUND FOCUS

Topic 1 focuses on extending students' understanding of writing and solving equations and inequalities to include equations and inequalities that require multiple steps to solve, as well as those that have variables on both sides of the equation or inequality.

Solving Equations

Real Numbers In Lesson 1-1, students learn that the sum or product of two rational numbers is always rational. The sum or product of a rational and irrational number is always irrational except when a factor is 0. Students use this understanding to solve equations involving real numbers and graph on the real number line.

Equations in One Variable In Lessons 1-2 and linear equations in one variable using the properties of equality. Students use math tools, such as algebra tiles, to that have no solution or infinitely many solutions.

Solving Inequalities

Inequalities in One Variable In Lesson 1-5, students use properties of inequalities to solve inequalities in one variable, including those that have no solution or all real numbers as solutions.

$4x + 6$ $2(2x + 3)$

$4x - 4x + 6$ $4x - 4x + 6$

$6 = 6$

Because statement the original is true

Literal Equations and Formulas In Lesson equations to model real-world problems. that a literal equation is an equation with such as a formula. Students solve literal equations the equation to isolate the variable of interest.

Equations Involving Absolute Value In Lesson equations that contain absolute value expressions two equations, one for when the value of positive and one for when the value of the Students recognize that when there is not a makes the equation true, there is no solution

$2|x - 17| = 18$
$|x - 17| = 9$

LESSON 1-1
Solving Linear Equations

A-Z Glossary

Lesson Overview

Objective
Students will be able to:
✓ Explain that each step in solving a linear equation follows from the equality in the previous step.
✓ Create and solve linear equations with one variable using the properties of equality.

Essential Understanding
Linear equations can be used to solve mathematical and real-world problems. You can solve linear equations by using the properties of equality.

Previously in earlier courses, students:
• Applied the properties of operations to find sums and products of rational numbers.

In this lesson, students:
• Create and solve simple linear equations with one variable and solve by writing equivalent equations using the properties of equality.

Later in this topic students will:
• Create and use properties of equality to solve linear equations with a variable on each side of the equation.

This lesson emphasizes a blend of *conceptual understanding* **and** *application.*
• Students understand that—when solving an equation—all the subsequent steps are equations that have the same solution.
• Constant rate problems can be modeled as linear equations in one variable.

A-Z Vocabulary Builder

REVIEW VOCABULARY   English | *Spanish*
• **equivalent equations** | *ecuaciones equivalentes*
• **inverse operations** | *operaciones inversas*
• **isolate** | *aislar*
• **solution of an equation** | *solución de una ecuación*
• **variable** | *variable*

VOCABULARY ACTIVITY
Review vocabulary from previous courses by showing students a simple equation such as $x + 2 = 8$. Ask students to explain the process for solving the equation using all five of the review vocabulary terms. As needed provide students with the following sentence stems.

To solve the equation $x + 2 = 8$ _____ **[isolate]** the _____ **[variable]** x by using the _____ **[inverse operation]** of addition. _____ **[Subtract 2]** from each side of the equation. The original equation $x + 2 = 8$ and the equation $x + 2 - 2 = 8 - 2$ are _____ **[equivalent equations].** The _____ **[solution of the equation]** is $x = 6$.

Students can do their in-class work for the lesson in Savvas Realize.

✓ Mathematics Overview

Students communicate that linear equations are solved through a series of steps that each follow from the asserted equality in the previous step.

Students use the properties of equality to write and solve linear equations in one variable.

Applying Math Practices

Make Sense of Problems and Persevere in Solving Them
After solving a linear equation, students consider whether the answer makes sense in the context of the problem.

Look For and Make Use of Structure
Students see a linear equation as a mathematical statement that is composed of two expressions set equal to each other. They understand that the solution of the equation is the value of the variable that makes the statement true.

ⓔ EXPLORE & REASON

🔊 Draw a copy of *ABCD* on the grid in a different location with the same orientation, and label it *QRST.*

A. On a sheet of paper, write instructions that describe how to move *ABCD* to the location of *QRST.*

🔊 B. Exchange instructions with a partner. Follow your partner's instructions to draw a third shape *EFGH.* Compare your drawings. Do your drawings look the same? Explain.

Construct Transform

Select Point Circle Polygon Angle Segment

Line Ray Vector Arc

More Tools

Online Support

Are you wondering how to get started on Savvas Realize and use the digital resources? There are a variety of tutorials and asynchronous courses to support you as you navigate www.savvasrealize.com. You can access these tutorials and courses on my Savvas Training.

Are You...

Not sure how to access Savvas Realize?

Looking for support about integrations with Schoology®, Canvas®, or Google Classroom®?

Looking for more information about Assessments and Lessons?

Looking for more information about Savvas Realize capabilities?
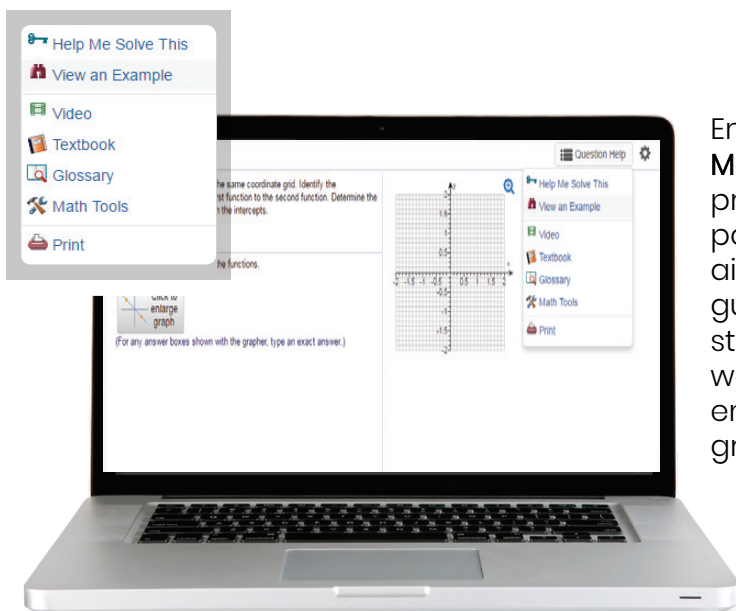
Review these Tutorials:

Review EasyBridge and Savvas Realize Tutorials

Asynchronous Courses for Canvas and Schoology, as well as Google Classroom Users

Assessment Guide & Teaching a Lesson

Explore Savvas Realize Asynchronous Course

my SAVVAS Training

Embedded **MathXL® for School** practice uses powerful learning aids to provide guidance to students as they work through embedded, auto-graded homework.

SAVVY
ADAPTIVE PRACTICE

Daily **Savvy Adaptive Practice** automatically adjusts to student performance and intervenes with interactive instructional support. Savvy offers greater transparency, informing students when and why practice or support is served up.

Survey

Go to: www.mySavvasTraining.com.
Click **Event Survey** in the footer.

Consultant:	
Event ID:	
Program:	
Service Type:	

Please tell us about your event.

Enter your Event ID

Select your Consultant's name

Training Date   mm   dd   yyyy

Disciplines	Grade Levels	Services	Company
Literacy	Pre-K	Savvas Learning Company	About Us
Mathematics	Elementary	Event Survey	Terms of Use
Science	Middle School	Find Your Sales Rep	Privacy Policy
Social Studies	High School	Contact Us	Rights and Permissions
World Languages		Support	
Arts & Music			
Technology			