

Experience Math © 2025 Family Engagement

Welcome



Family Engagement

**Experience
Math™**

The best way to learn is
through experience.

Family Engagement helps support student
learning beyond the classroom

Welcome to *Experience Math*™ Family Engagement!

Family Engagement resources have been designed to help caregivers, parents, family and community members support student learning beyond the classroom.

Let's explore the resources that equip you with strategies and tools to engage your child more intentionally in the world of mathematics!

Overview of Resources

The screenshot shows the 'Experience Math' interface for 'Topic 9: Algebra'. The main heading is 'Overview of Resources'. Below this, there are several sections:

- Overview of Resources:** A brief introduction stating that Experience Math offers various resources for students and families.
- Student Resources:**
 - Learn:** Includes 'Student Edition' for deepening understanding and 'Additional Practice' for extra examples.
 - Support:** Includes 'Games and Puzzles' for important concepts, 'Digital Glossary' for English and Spanish definitions, and 'Academic Vocabulary' for non-math terms.
- Family Resources:**
 - Topic Level:** Includes a 'Topic Overview' for learning goals and connections, and a 'Lesson Level' 'Sum it Up' section for key ideas and definitions.
- Putting Resources to Work:** Provides tips for helping students succeed, such as checking standards, reviewing key ideas, and engaging in activities. It also mentions the availability of the Glossary and Academic Vocabulary.
- Supporting Learning at Home:** Outlines ways to support learning outside the platform, starting with '1. Get Ready!' and 'Create a work-friendly environment'.

You will receive a link directly from your school with no login required.

Here in the Overview of Resources, you'll find a variety of digital resources to help your child discover the math.

You'll find a Student Resources section with the interactive Student Experience Book, additional practice and examples for each lesson, games and puzzles, math tools, vocabulary, and more!

The Putting Resources to Work section offers tips for you to help your child succeed in mathematics.

Supporting Learning at Home outlines ways you can support your child's learning at home outside of Experience Math.

Get ready by creating a work-friendly environment, designating a quiet place for study, keeping study time uninterrupted, and providing necessary math tools that assist learning.

Add support by learning alongside your child! Familiarize yourself with procedures and help your child with problems. Play games and enjoy practicing math together.

Go beyond by pointing out how math is used in everyday life and looking for real-world problems.

Topic-Level Support

Experience Math. Overview of Resources Translate

Topics and Lessons ▾
close sections
Print or save as pdf

Topic 9: Algebra
close sections

Overview ▾

Topic 9 extends your student's work with adding and subtracting algebraic expressions, writing equivalent expressions, solving equations, solving inequalities, and solving problems algebraically.

Learning Goals ▾


In this topic, your student will:

- Add and subtract algebraic expressions.
- Write equivalent expressions.
- Solve equations.
- Solve inequalities.
- Solve problems algebraically.

Connect the Math ▾

You can connect the math in this topic to real-world situations, just as many real-world situations can be modeled by expressions, many real-world problems can be modeled by equations or inequalities. An equation is used to model a problem for which there is one solution. An inequality is used to model a problem for which there is more than one solution.

Suppose a bowling alley charges \$4.75 per game plus \$4.80 to rent shoes. The equation $4.75g + 4.8 = 28.55$ models the situation where g represents the number of games bowled and the total charge is \$28.55. There is only one solution, 5 games, to this equation. The inequality $4.75g + 4.8 < 30$ models the situation when the total budget must be less than \$30. There is more than one solution: you could bowl 1, 2, 3, 4, or 5 games. The cost for 6 or more games is more than \$30.



Games and Puzzles ▾

To reinforce the math in this topic, play:

Express Yourself ([English Print](#)) ([Spanish Print](#)) after your student completes Lesson 9-1.

Equation Builder ([English Print](#)) ([Spanish Print](#)) after your student completes Lesson 9-3.

Topic 9 Lessons ▾

Lesson 9-1 [Add and Subtract Algebraic Expressions](#)

Lesson 9-2 [Equivalent Expressions](#)

Lesson 9-3 [Solve Equations](#)

Lesson 9-4 [Solve Inequalities](#)

Lesson 9-5 [Solve Problems Algebraically](#)

The Topic Overview provides a preview of upcoming content with visuals to support understanding.

Each topic has an overview, so you can engage with your child on the big idea and understand the end learning goal. Let's look at a topic.

You are presented with multiple ways of helping your child understand the concepts being taught.

Use Connect The Math to tie the math to everyday experiences for your child. This will help them connect the big idea to the world around them.

Use Games and Puzzles to reinforce the math in the topic. This includes both print and digital versions in English and Spanish.

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Lesson-Level Support

Lesson 9-1: Adding and Subtracting Algebraic Expressions

Lesson Objective
Use known meanings and models for addition and subtraction to make sense of adding and subtracting algebraic expressions.

Sum It Up
This is a summary of the key ideas in this lesson. It can be used to support students' learning.

What is an Algebraic Expression?
An algebraic expression is a combination of terms made up of variables, constants, and operation signs.
Example: $2n + 6$ is an algebraic expression. So is $\frac{n}{2} - \frac{1}{3}$ or $\frac{3mn}{4}$.

Modeling Algebraic Expressions
You can model algebraic expressions that involve two variables with algebra tiles.
Variables that are different need to look different, so the y -tile is shorter than the x -tile.

1, -1, -x, -y, x, y

You could model $3x + 2$ like this:

x, x, x, 1, 1

Lessons support the overall topic concept

New ideas and examples

Visual learning opportunities

Practice

Lessons support the overall topic concept. Each lesson digs in by introducing new ideas and providing new examples, visual learning opportunities and practice. Each topic has multiple lessons to support the topic concept.

Start with the Lesson Objective. This will help you understand the Objective and other words you can use to help your child better understand the concept.

Use any hyperlinks to help visualize abstract concepts.

The Sum It Up section provides a summary of the key ideas in this lesson and can be used to support your child's learning.

Lesson support provides digestible examples and video support.

A helpful Definitions section is also provided to help support learning at home.

Closing



Family involvement is one of the many ways *Experience Math* supports your child's success in math.

Family Engagement resources are here to help you guide and advance your child's learning and foster their success.

Thank you for joining us!