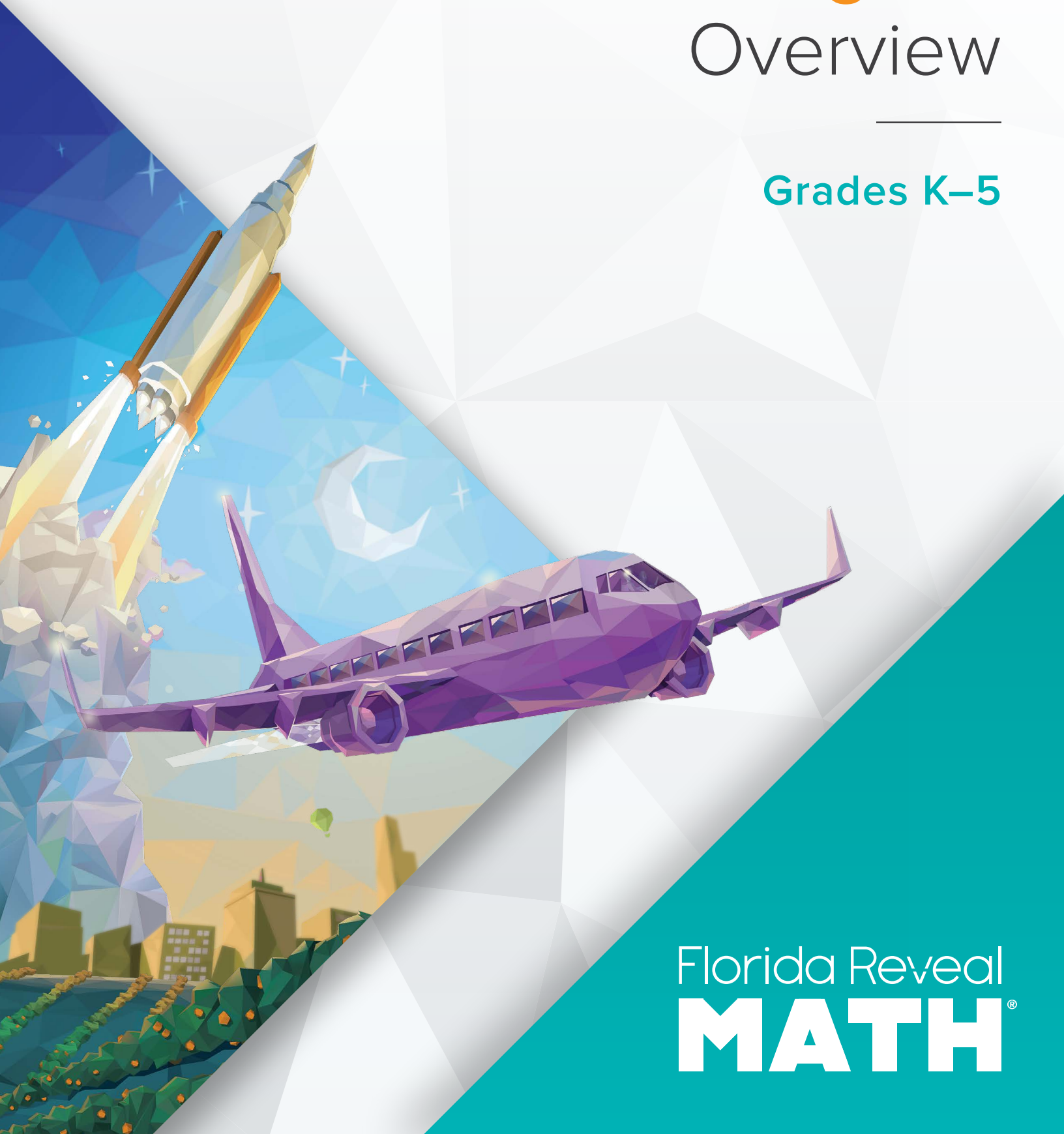




# Program Overview

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Grades K–5



Florida Reveal  
**MATH**<sup>®</sup>



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*Florida Reveal Math* for grades K–5 not only aligns with Florida’s B.E.S.T. standards but will transform the way your students think about mathematics by developing a growth mindset and emphasizing the development and application of critical problem-solving skills.

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**Review *Florida Reveal Math* Online**

[my.mheducation.com](https://my.mheducation.com) | Teacher UN/PW: **flrevealk5** | Student UN/PW: **flrevealk5se**



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# Designed to Meet Florida's B.E.S.T. Standards

# 01

Florida's B.E.S.T. Standards

With Florida's Benchmarks for Excellent Student Thinking (B.E.S.T.) Standards for Mathematics as the center of development, *Florida Reveal Math* is designed to ensure all students can access rigorous content through high-quality instruction and become doers of mathematics.

## 1. Benchmarks

Each lesson lists the Benchmark of Focus and the Connecting Benchmark(s).

## 2. Mathematical Thinking and Reasoning

Mathematical Thinking and Reasoning Standards are integrated into every lesson.

## 3. Lesson Objectives

Each lesson has clear and concise objectives and focus.

## 4. Learning Progression

Learning Progression shows both horizontal and vertical progressions.

## 5. Benchmark Clarifications

Benchmark Clarifications within the Unit Overview provide clarity.

**LESSON 2-1**  
**Counting Patterns to 100**

**Learning Targets**

- I can identify patterns with numbers to 100.
- I can describe patterns when counting to 100.

**Florida B.E.S.T. Standards**

**Benchmark of Focus**  
**MA.1.NSO.1.1** Starting at a given number, count forward and backwards within 120 by ones. Skip count by 2s to 20 and by 5s to 100.

**Connecting Benchmark:** MA.K.NSO.2.1

**Mathematical Thinking & Reasoning Standards**  
**MTR.4.1** Engage in discussions that reflect the mathematical thinking of self and others.  
**MTR.5.1** Use patterns and structure to help understand and connect mathematical concepts.

**Lesson Objectives**

<b>Content Objective</b> <ul style="list-style-type: none"><li>Students identify patterns when counting to 100.</li></ul>	<b>Language Objectives</b> <ul style="list-style-type: none"><li>Students use phrasal verbs such as <i>go up by</i>, <i>start at</i>, and <i>comes next</i> to identify patterns when counting to 100.</li><li>Optimizing outputs by participating in MLR2: Critique, Correct, and Clarify.</li></ul>	<b>Math Mindset Objective</b> <ul style="list-style-type: none"><li>Students build proficiency with self-management as they practice strategies for staying focused on a task.</li></ul>
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**Learning Progression**

<b>Previous</b> <ul style="list-style-type: none"><li>Students counted to 100 by tens and ones (Grade K).</li></ul>	<b>Now</b> <ul style="list-style-type: none"><li>Students recognize and name patterns when counting to 100.</li></ul>	<b>Next</b> <ul style="list-style-type: none"><li>Students understand place value of 2-digit numbers (Unit 3).</li><li>Students describe patterns when counting by 1s within 1,000 (Grade 2).</li></ul>
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**Benchmark Clarifications**

**MA.1.NSO.2.2** Explore multiplication of two whole numbers with products from 0 to 144, and related division facts.

- Includes equal groups, arrays, area models and equations.
- Students represent one problem in multiple ways and understand how the different representations are related to each other.
- Factors and divisors are limited to up to 12.

**MA.3.AR.1.1** Apply the distributive property to multiply a one-digit number and two-digit number. Apply properties of multiplication to find a product of one-digit whole numbers.

- Students apply and name the associative and commutative properties of multiplication, the distributive property.
- Students utilize parentheses.
- Multiplication for products of three or more numbers is limited to factors within 12.

**MA.3.AR.2.1** Restate a division problem as a missing factor problem using the relationship between multiplication and division.

- Multiplication is limited to factors within 12 and related division facts.
- The symbolic representation of the unknown uses a symbol or letter.

**MA.3.AR.2.2** Determine and explain whether an equation involving multiplication or division is true or false.

- Students extend the understanding of the meaning of the equal sign to multiplication and division.
- Problem types are limited to an equation with three or four terms. The product or quotient can be on either side of the equal sign.
- Multiplication is limited to factors within 12 and related division facts.

**MA.3.AR.2.3** Determine the unknown whole number in a multiplication or division equation relating three whole numbers, with the unknown in any position.

- Extends the development of algebraic thinking where the symbolic representation of the unknown uses a symbol or letter.
- Problems include the unknown on either side of the equal sign.
- Multiplication is limited to factors within 12 and related division facts.

**Vocabulary**

Math Terms	Academic Terms
count	describe
ones	order
pattern	
tens	

**Materials**

Materials may be for any part of lesson.  
Number Cards 0–120  
Counting Resource

**Number Routine**  
**What did you see?**  
5–7 min

**Grade Fluency** Students build their subtracting skills as they determine the number of dots in an image.

Students view an image of dots in ten-frames for less than 30 seconds. Students then tell the number of dots they saw and explain how they determined the total.

These prompts encourage students to talk about their reasoning:

- How many dots were on the card?

Math is... **Modeling**

What is another way to represent 3 groups of 6?

## Mathematical Thinking and Reasoning

Integrated into every lesson, **Math is... prompts** help students self-monitor and apply mathematical thinking and reasoning skills to the problem-solving process.

# Math is... More Than Just Numbers

02 | Motivate Students

*Florida Reveal Math* looks to encourage students to see themselves as doers of mathematics. The first unit in each grade, the **Math is... Unit**, is designed to encourage all students to:

## Understand that their math story is ongoing.

In this first lesson, students will:

- Develop a **growth mindset**.
- Take ownership of their math story.

## Develop mathematical thinking and reasoning.

In Lessons 2 through 5, students will:

- Develop their **Mathematical Thinking and Reasoning Skills**.
- Communicate about and apply these skills to the problem-solving process.

## Create a collaborative classroom community.

In Lesson 6, students will:

- Develop a voice and choice in their classroom environment.
- Establish **classroom norms** of interaction.

### Learn

Math is all around us. We see it in our homes. We see it on the playground. We see it when we go shopping.

We all have a math story.

Let's learn about our teacher's math story.

What did you like about math when you were in school?

**Math is... Mindset**  
What do I like about math?

When we do math, we use different representations to help us.

I can show the problem with a drawing.



$$54 - 40 = 14$$

**Math is... Representing**  
How can I show the problem in a different way?

### How do we do math?

When we do math, we often work together.

- We listen to our classmates and teachers.
- We share our thinking.
- We respect the ideas of others.
- We think about the ideas of others.
- We share tools and take turns.

**Math is... Mindset**  
What can I do to be a good listener?



Written by contributing authors Linda Gojak and John SanGiovanni

# Create an Equitable Classroom

*Florida Reveal Math* emphasizes a positive and productive classroom and supports conscious lesson planning for all students.

*Florida Reveal Math* supports an equitable classroom through:

- Achievable academic goals.
- Instructional focus on exploration, discourse, and sense-making.
- Lesson access points for all students to participate.
- Multiple representations to promote understanding.
- Comprehensive language supports to access the language of mathematics.
- Embedded scaffolds and supports to promote common access to rigor for all students.
- Data-driven instructional choices.
- Multi-modal differentiation.



## Focus on the Whole Child

### Math is... Mindset

What makes you feel confident about your work today?

*Florida Reveal Math* identifies clear objectives to support students' development in understanding the math content, communicating confidently about mathematics, and approaching problem-solving with a growth mindset.

# Build Shared Language

*Florida Reveal Math* was developed around the belief that mathematics is not just a series of operations but a way of communicating—listening, speaking, reading, writing, and most importantly, thinking. As a result, all students can benefit from support designed to develop and promote the use of mathematical language.

**MLD**

## Math Language Development

Feature offers insights into one of the four areas of language competence—reading, writing, listening, and speaking.

**MLR**

## Math Language Routines

Occur in every lesson to promote the use of mathematical language.

**EL**

## English Learner Scaffolds

Based on WIDA levels and help students understand math vocabulary, ideas, and concepts in context.

## Language Objectives

Identifies a linguistic focus of the lesson for all learners.

**LOM**

## Language Development

Graphic organizers, tools, and tips for building students' academic and math vocabulary within each lesson.

**LOM**

## Language of Math

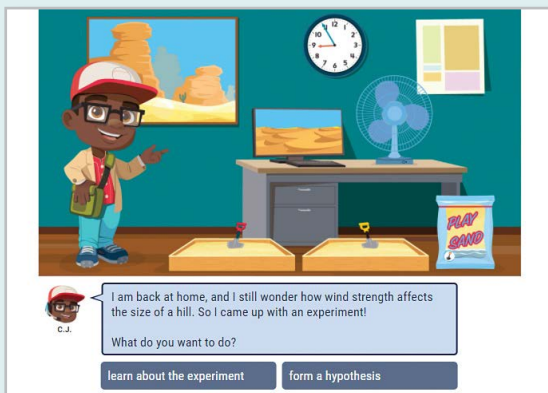
Promotes the development of key vocabulary terms that support how we talk about and think about math in the context of the lesson.

The screenshot shows a unit overview page with a purple header. The main content is divided into sections: 'Language of Math Vocabulary', 'Math Language Development', and 'English Language Learner'. The 'Vocabulary' section lists terms like array, commutative property of multiplication, division, equal groups, expression, fact triangle, factor, multiplication, product, and quotient. The 'Math Language Development' section focuses on speaking and provides strategies for students to describe math problems. The 'English Language Learner' section provides scaffolds for students with limited English proficiency. At the bottom right, there is a 'Four-Square Vocabulary' graphic organizer for the term 'like denominators'. The page number 123E and 'Unit 4 • Multiplication and Division' are visible at the bottom left.

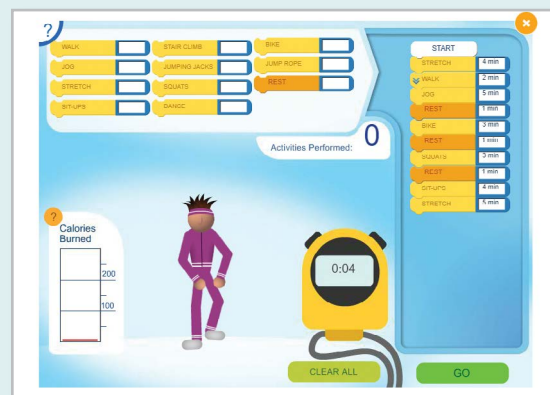
# Make Real-World Connections

## STEM-Focused Units

Each unit highlights a STEM career and shows real-world applications of math to help students see math as a tool to explore the world around them. The **STEM Career Kid video** introduces a STEM career, and the **Math in Action video** applies the unit’s math content to real-world situations.



Within **STEM Adventures**, students engage in experiments with the STEM Career Kids, make hypotheses, and apply mathematical knowledge to analyze the data.



Real-world STEM connections are woven throughout **Redbird Mathematics**, making math relevant for students. Many topics conclude with a digital STEM project.



# Rigorous Application of Math


Every unit provides three in-depth **Application Station Cards** that help students extend their thinking and work at **higher depths of knowledge** as they connect the unit content to real-world examples:

### Designing Neighborhoods

Civil engineers plan and design buildings, roads, bridges, and neighborhoods.

Plan 2 neighborhoods.

1. Draw a map of each neighborhood. Put 20-30 houses in the first neighborhood. Put 30-40 houses in the second neighborhood.
2. Include things such as roads, sidewalks, fire hydrants, and lamp posts.
3. Make a list of items that need to be ordered for each house. For example, each house will need a mailbox. Then, list how many of that item to order for the houses in both neighborhoods.
4. Build a model of each of your neighborhoods.



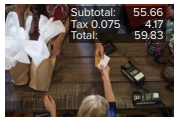
### State Sales Tax

When you buy goods from stores, such as a video game or a pair of jeans, you pay sales tax. The store then gives the sales tax to the state government to pay for services like preserving parks or updating highway systems.

Your *Homemade by Me* company is doing well and growing. You are thinking about opening stores in other states. The amount charged for sales tax may make a difference in which states you expand to.

Find and list the state sales tax in a table for 5 states you want to expand your business to. In column 1, order the states from least to greatest by the state's sales tax as a decimal. In column 2, write what would be the state's sales tax if it was 10 times the amount it is now. In column 3, write what would be the state's sales tax if it was  $\frac{1}{10}$  the amount it is now. Use this information to determine which 3 states you are more likely to expand your business to. Justify your decision.

1. What is the purpose of a sales tax?
2. Why do you think states have different sales tax? Give at least one specific example to support and justify your reasoning.





### How Many Beats in a Song?

This is sheet music for the *Alphabet Song*.

Sheet music shows a song's musical notes. Each note (♪) tells you how long each sound lasts. Clap your hands and sing the song while you look at the music. Every clap is one beat. A, B, C, and D are each sung to 1 beat.

There are three different notes on this sheet music. Each has a different number of beats.

♪ 1 beat      ♪ 2 beats      ♫ 1 beat together

The top 4 of the symbol  at the beginning shows that there are 4 beats in each measure. Vertical bars  separate the measures. In the *Alphabet Song*, A, B, C, D is one measure. E, F, G is the next measure, and so on.

1. Circle each measure in this song and count the number of in each. How many beats are there altogether from the beginning to the end of the song?
2. Write an equation to represent what you learned about the equal groups of beats in the *Alphabet Song*.
3. Visit the music room at your school or do an Internet search.
4. Find sheet music for a few simple songs in  $\frac{4}{4}$  time. Then, repeat the activity, counting and representing the equal groups of beats.

STEM Project Card

Unit 3 • Multiplication and Division

Real-World Card

Cross-Curricular Connection Card

### Performance Task

A construction team will begin building a new house.

**Part A:** The construction manager is planning her teams. Each team will have 7 people. Could the construction manager ever evenly assign 54 people to teams? Explain.

**Part B:** The manager would like to complete the house in 32 weeks. The manager would need to assign at least 9 teams to complete the work on time. What is the least number of people the manager would need to assign to get the work done? Explain your reasoning.

**Reflect**

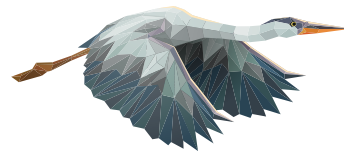
How can you represent and explain multiplication and division?

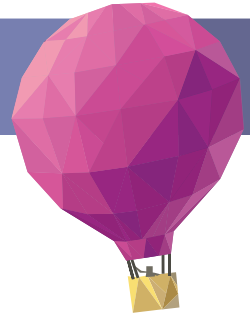
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162 Unit 4 • Performance Task



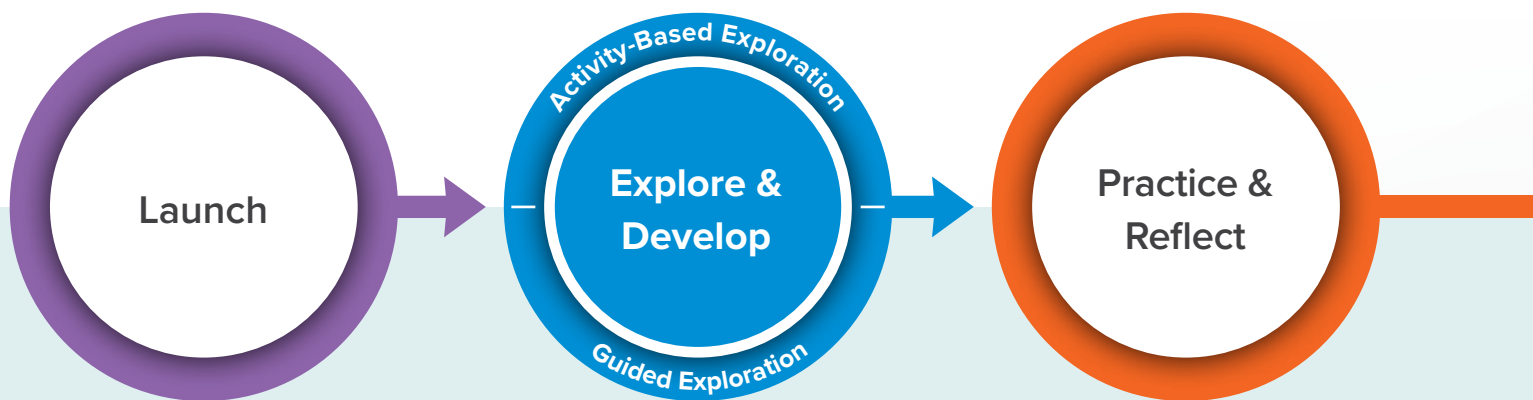
Each unit includes opportunities to reach higher depths of knowledge through **Performance Tasks**.





## Utilize a Flexible Lesson Model

The *Florida Reveal Math* lesson model keeps sense-making and exploration at the heart of learning. Every lesson provides **two instructional options** to develop the math content and tailor the lesson to the needs and structure of the classroom.



Teachers facilitate student conversations with the **Be Curious** activity to spark mathematical thinking and curiosity.

Teachers encourage student exploration through either the **Guided Exploration** or **Activity-Based Exploration** to foster student understanding.

**(Two ways to teach every lesson!)**

Teachers provide additional practice through **On My Own**, and students reflect on their learning.

# Create Consistency in Learning

Instructional routines are embedded within every *Florida Reveal Math* lesson to help students become proficient doers of mathematics.

## Build Fluency

### Number Routines

Support the development of flexibility with numbers and fluency with operations at the start of every lesson.

## MLR

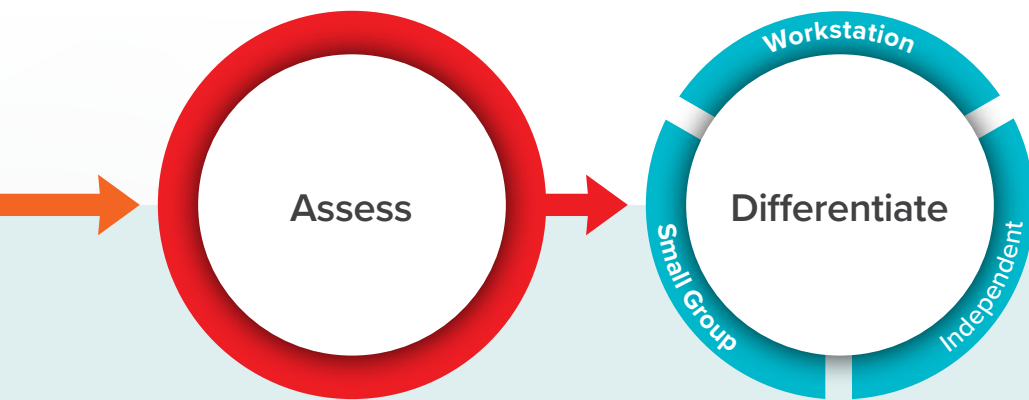
### Math Language Routines

Promote mathematical language use and development as part of math instruction.



### Sense-Making Routines

Build sense-making as a foundation for problem-solving and mathematical modeling.



Teachers will assign the **Exit Ticket** to inform instruction, and students communicate their confidence level with the teacher.

Teachers choose from a variety of **Daily Differentiation** activities to support every student's path to understanding, pulling small groups as needed to reinforce understanding.



# Spark Curiosity Through Conversation



“Let’s bring curiosity, wonder, and joy back into the classroom and make math irresistible for kids.”

–Raj Shah  
Contributing Author



Name \_\_\_\_\_

## Broken Calculators

### Part A: Your calculator can only add 2s and 5s.

How can you make numbers less than 100 with this calculator?



### Part B: Your calculator can only add 3s and 7s.

What whole numbers less than 12 *cannot* be made with this calculator?

How can you make each of the whole numbers 12 through 16 with this calculator?



What is the quickest way to make 30 with this calculator? Explain.

Is there a number greater than 11 that *cannot* be made with this calculator? Explain.

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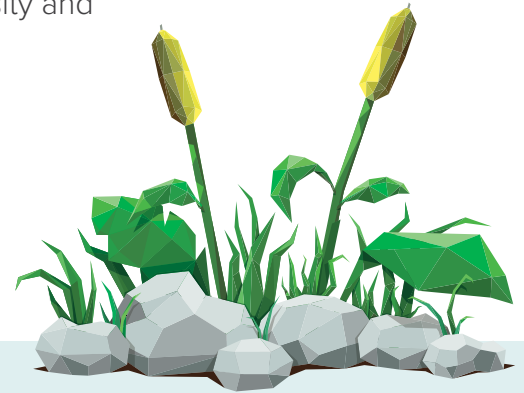


Each unit opens with an **Ignite! activity**, an interesting problem or puzzle that:

- Sparks students’ interest and curiosity.
- Provides only enough information to open up students’ thinking.
- Motivates them to persevere through challenges involved in problem-solving.

# Notice and Wonder

**Sense-making routines** launch every lesson, creating an equitable classroom culture where all ideas are welcome and respected. Student curiosity and ideas shared in **Be Curious** become the base for the day’s lesson.



Lesson 4-1  
**Understand Equal Groups**

**Be Curious**  
What do you notice?  
What do you wonder?

Math is... Mindset  
What can you do to be an active listener?

B.E.S.T. Standards  
MA.3.NSO.2.2, MTR.3.1

The slide features a background image of many baskets filled with peaches. The text is overlaid on a blue and green geometric design.

*“All students have ideas about math that are valid and worth talking about.”*

–Annie Fetter  
Contributing Author

The image shows a tablet displaying the same 'Be Curious' slide as seen in the previous image. The slide content is identical, including the peach basket background and the text prompts.



## Accessible to All Students

**Be Curious** offers a low floor, high ceiling routine that allows every student to explore and discuss their ideas with multiple entry points and approaches to problem-solving.

# Build Understanding Through Exploration

Teachers have their **choice of two instructional strategies** to facilitate student exploration within Explore & Develop:

- **Activity-Based Exploration** allows students to explore concepts, develop and test hypotheses, and—most importantly—engage in productive struggle as they use mathematical modeling to gain understanding.
- **Guided Exploration** follows a teacher-facilitated exploration with a question-and-answer format and collaboration to promote rich discourse.

## Math is... Precision

### Encourage Mathematical Thinking Habits

To think like mathematicians, students must employ **mathematical thinking and reasoning skills** to develop a problem-solving frame of mind.

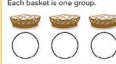
*Florida Reveal Math* helps students build proficiency through the **Math is... prompts**. These prompts are found in the Learn stage of every lesson and model the kinds of questions students can ask themselves to become proficient problem solvers and doers of math.

Explore & Develop
20 min

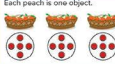
**Learn**

How can you represent the number of peaches in the three baskets?

Each basket is one group.



Each peach is one object.




Each basket has the same number of peaches.  
There are 3 **equal groups** with 5 objects in each group.  
3 equal groups of 5  
 $3 \times 5 = 15$


You use **multiplication** to represent equal groups.


**Math Talk - Accuracy**  
Why is it important to say **equal groups**?


**Work Together**

Which show equal groups? Explain how you know.

A 

B 

C 

D 

**Sample answer:** A, B, and C show equal groups because there is the same number of objects in each group.

**Collect and Display**

As you discuss the questions with the students, listen and write key words on the board that students use, such as *groups*, *objects*, *number of*, and *multiplication*. Display the words and phrases for student reference. Use the student-generated expressions to help them make connections between student language and math vocabulary. Update the collection with new understandings as the lesson progresses.

**Pose the Problem**

**Pose Purposeful Questions**

- What might you need to know before finding the total number of peaches?
- How could you find the total number of peaches in all 3 baskets?

**Develop the Math**

**Choose the option that best meets your instructional goals.**

**Critique, Correct, and Clarify**

On the board write, *There are 5 groups with 3 objects in each group*. Pair students to discuss whether this statement about the baskets of peaches is correct. Ask them to identify any mistakes and to make changes. Have students write a new, correct version of the sentence.

**Bring It Together**

**Elicit Evidence of Student Thinking**

- If each basket had 6 peaches, how would the drawing be different?
- Would multiplication always work to find the total number of objects in equal groups? Why or why not?

**Key Takeaway**

- One meaning of multiplication is equal groups.

**Work Together**

The Work Together activity can be used as a formative assessment opportunity to check students' understanding of equal groups. Have students work on the activity in pairs before asking them to identify whether the options show equal groups.

**Common Misconception:** Students may think that D shows equal groups because the total number of objects in the first and last group is the same total as the middle group. Remind students that equal groups means that each group has the same number of objects.

**Language of Math**

Students need multiple opportunities to describe the *number of groups*, the *number of objects in each group*, and the *total number of objects*. Ask students questions that require them to use these terms when describing both representations and equations.

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Unit 4 • Multiplication and Division

## CHOOSE YOUR OPTION

### Activity-Based Exploration

Students explore and use equal groups to find the total number of objects.

**Materials:** counters or other countable manipulatives, yarn or string

**Directions:** Students will explore ways to find the total number of peaches in 5 baskets.

- Let's imagine there are five baskets and the baskets have peaches in them. How can you determine the total number of peaches in the baskets?

### Guided Exploration

Students build an understanding of one meaning of multiplication as equal groups.

**ETP Use and Connect Mathematical Representations**

- Think About It:** What does each object represent?
- What could be another way to show the number of baskets and the number of peaches in each basket?

## CHOOSE YOUR OPTION

### Activity-Based Exploration

Students explore and use equal groups to find the total number of objects.

**Materials:** counters or other countable manipulatives, yarn or string

**Directions:** Students will explore ways to find the total number of peaches in 5 baskets.

- Let's imagine there are five baskets and the baskets have peaches in them. How can you determine the total number of peaches in the baskets?

Students will use yarn or string to represent the baskets and counters to represent the peaches. Students may choose to place the same number of counters in each group or a different number. Have them find the total number of peaches and record their work.

**Support Productive Struggle**

- How many counters are in each group?
- How can you find the total number of counters when there is a different number in each group? How can you find the total when there are the same number in each group?
- Do you always have to add to find the total? Explain.

Have students share and compare their strategies for finding the total number of counters when there was the same and different numbers in each group.

- Which was easier: finding the total when the groups had the same number of objects or when they had different numbers of objects?

Introduce the concept of multiplication.

- One way to find the total number of objects in equal groups is to use multiplication. You can multiply the number of groups by the number of objects in each group.

Model 5 groups of 3 counters and present the equation  $5 \times 3 = 15$ . Note the multiplication symbol and as needed discuss operation symbols they already know. Have students repeat the activity with equal groups in each basket and represent with a multiplication equation.

- What strategies can you use to find the total?

**Activity Debrief:** Have pairs explain how they found the total number of counters. Ask them to think about why using multiplication might be a more efficient strategy for determining the total.

**Math is... Accuracy**

- Why is it important to say *equal groups*?

Students reflect on the importance of precise language when exploring multiplication.

**English Learner Scaffolds**

**Entering/Emerging** Hold a book. Say, *This is an object. An object is a thing. Pick up item(s) from your desk. Say, This is an object. Point to yourself. Ask, What about me? Am I an object? (No.) Point to your chair. Ask, Is my chair an object? (Yes.)*

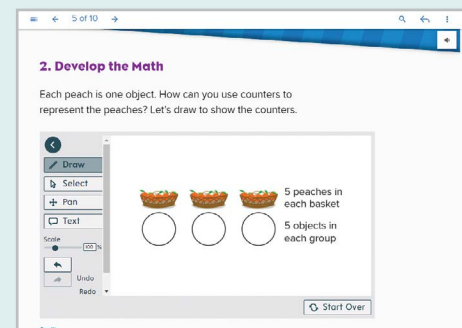
**Developing/Expanding** Hold a book. Say, *This is an object. An object is a thing. Pick up item(s) from your desk. Say, This is an object. Point to yourself. Ask, What about me? Am I an object? (No.) Point to your chair. What about my chair? (It's an object.)*

**Bridging/Reaching** Guide students in using *object*. Ask them to compare something that is an object with something that is not. *Your chair is an object, but you are not. My dog's collar is an object, but my dog isn't.*

Lesson 4-1 • Understand Equal Groups 126A

Explore & Develop also offers resources for teachers, like:

- Integrated Effective Teaching Practices** guide instruction and discourse, keeping the student at the center of the learning.
- Lesson Presentations** are available in both interactive and downloadable PowerPoint formats.



# Strengthen Understanding Through Purposeful Practice

Practice & Reflect provides students with questions that address all elements of rigor to practice application along with the algorithmic procedures.


**On My Own** activities can be completed in the print Student Edition or eBook and are also available in Spanish.


Two additional practice pages can be completed in the **Student Practice Book** or **Interactive Digital Practice**, which embeds learning aids.

**On My Own** MATH REPLAY GO ONLINE

Name \_\_\_\_\_

**How many? Fill in the blanks.**

1.  \_\_\_\_\_ equal groups of \_\_\_\_\_

2.  \_\_\_\_\_ equal groups of \_\_\_\_\_

**How can you represent the equal groups?**


3. 2 equal groups of 7      4. 4 equal groups of 5


**How many objects?**

5. 4 equal groups of 4 pencils  
 $4 \times 4 =$  \_\_\_\_\_ pencils


6. 3 equal groups of 2 mittens  
 $3 \times 2 =$  \_\_\_\_\_ mittens

**What equation represents the equal groups?**

7.  \_\_\_\_\_

8.  \_\_\_\_\_

9. **STEM Connection** Finn has 3 construction sites. He assigns 8 workers to each site. How many workers does he assign? Explain how you know.



Unit 3 • Multiplication and Division 5

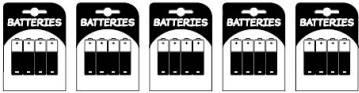
Lesson 4.1  
**Additional Practice**

Name \_\_\_\_\_

**Review**

You can multiply the number of objects in each group by the number of equal groups to find the total number of objects.

If Jay buys five 4-packs of batteries, he buys a total of 20 batteries.



$5 \text{ packs} \times 4 \text{ batteries per pack} = 20 \text{ batteries in all}$

**How can you represent the equal groups?**


- 4 equal groups of 6
- 5 equal groups of 2
- 2 equal groups of 8

Student Practice Book  
37



Every lesson contains a one- to two-minute video explanation of the lesson concept for students to reference as they complete independent work.

Math Replay: Understand Equal Groups

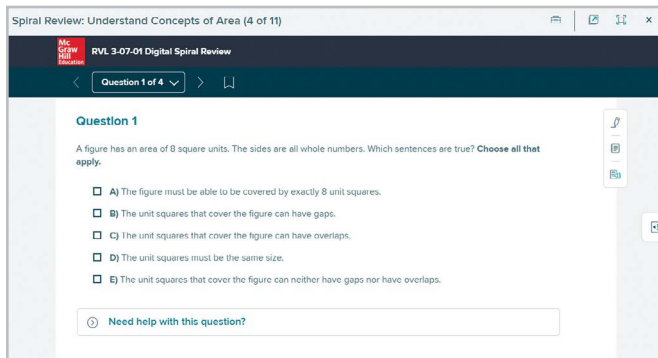


?

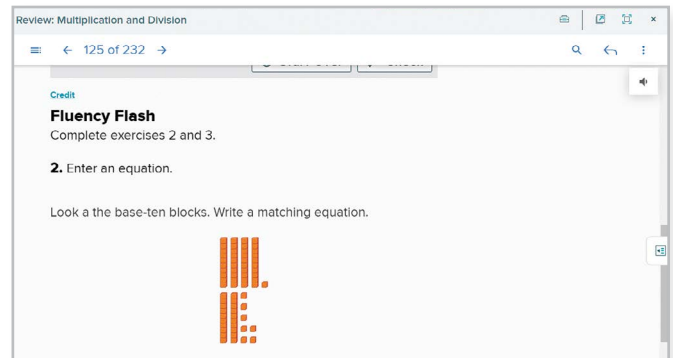
How can you represent the number of peaches in the three baskets?



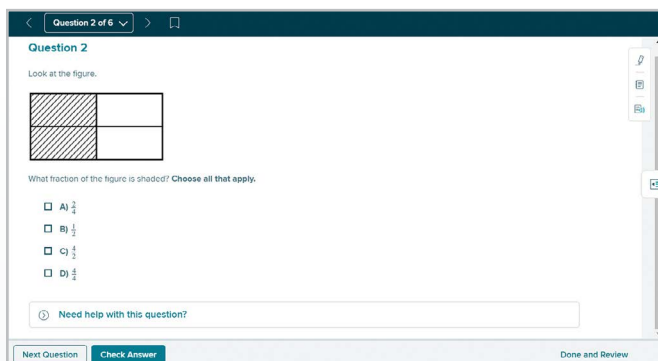
# Build Fluency and Number Sense



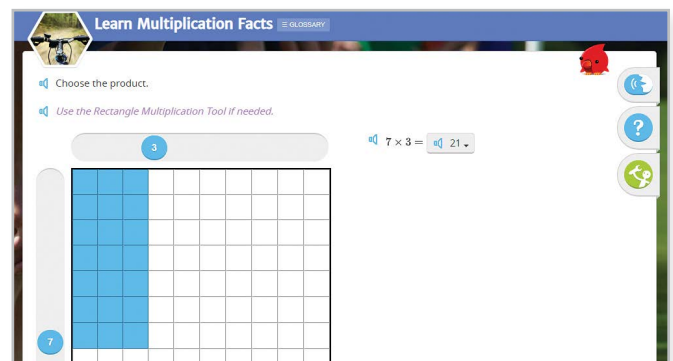
**Spiral Review**—Daily practice on the major concepts of each grade level in print and digital formats.



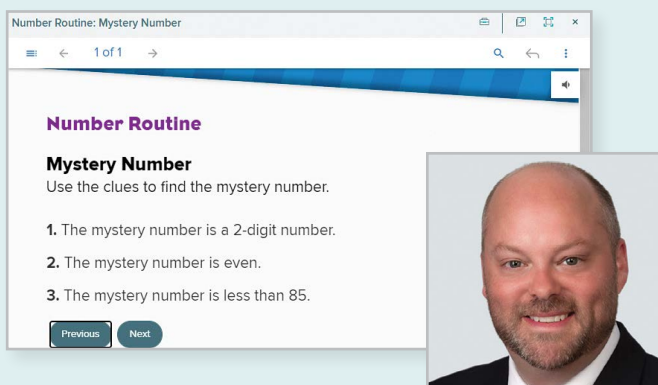
**Fluency Practice**—Per unit practice addressing each grade's fluency expectations in print and digital formats.



**State Assessment Practice**—Weekly benchmark focus to prepare for end-of-year assessments in print or digital formats.



**Redbird Mathematics**—Adaptive instruction on the focus areas across grade levels to accelerate learning.

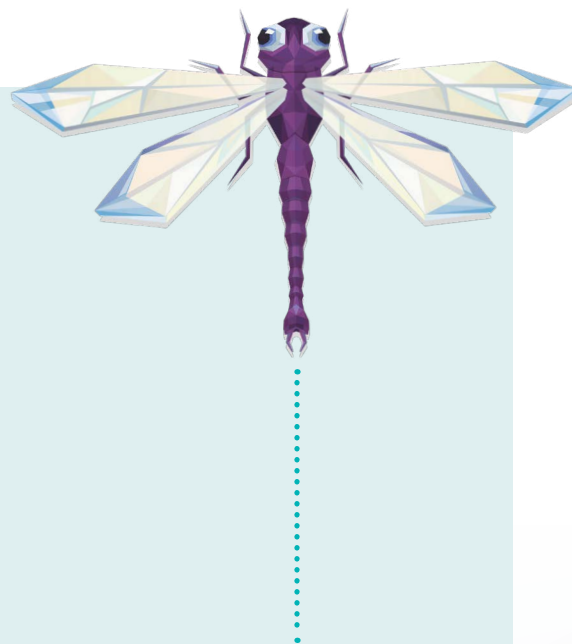


## Daily Number Routines

Teachers utilize a **Number Routine**, written by John SanGiovanni, to build number sense and proficiency with numbers. This supports the students' ability to fluently and flexibly apply strategies to solve unknown problems.

# Monitor Student Understanding

Florida Reveal Math offers a comprehensive set of assessment tools that include diagnostic, formative, and summative tools.



## Diagnostic

- Course Diagnostic
- Unit Diagnostic

## Formative

- Exit Ticket
- Math Probe

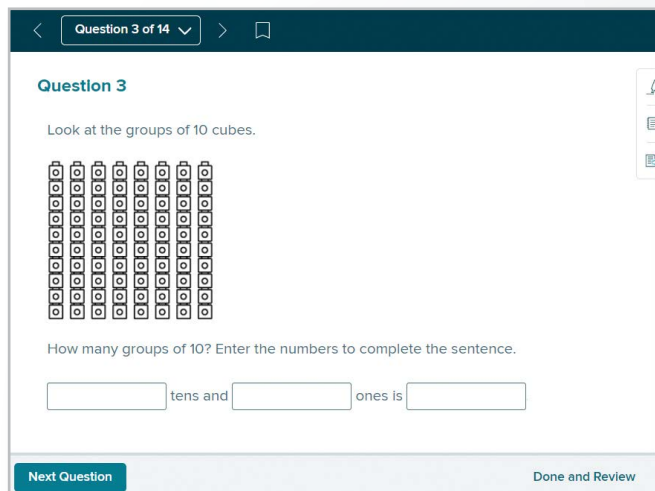
## Summative

- Unit Assessment, Forms A and B
- Unit Performance Task
- Benchmark Assessments
- End-of-Year Assessments

## Print and Digital Formats

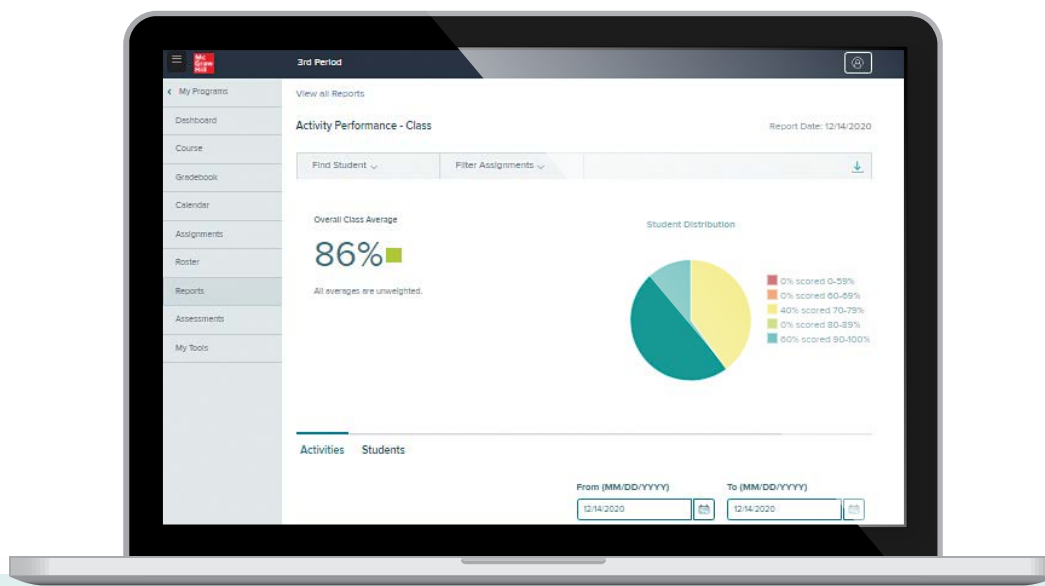
All assessments are available for either print or digital administration. Print Assessments can be found in the Assessment Resource Book or as downloadable PDFs in the Digital Center.

All digital assessment items, except for open response questions, are autoscored. Teachers can create new or customize existing assessments using additional item banks and item authoring tools.



# Data to Drive Instruction

Performance reports—found in the Digital Teacher Center—provide immediate feedback to teachers, which allows them to make data-driven instructional decisions.



## Activity Performance Report

Teachers can review useful data points for class activities, including item analysis by student and class.

## B.E.S.T. Standards Report

Teachers can access class performance by standard, including a cumulative score by class and student.

## MAP Growth Report

Teachers can view students' *MAP Growth* RIT scores and progress throughout the year.

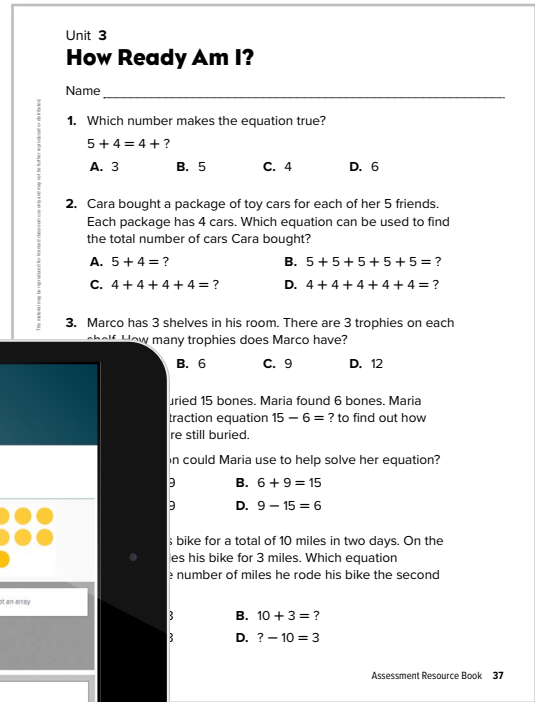
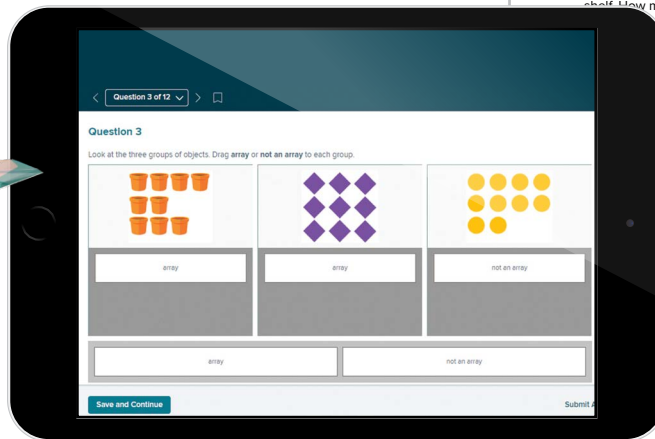
# Integrate *MAP Growth* Data to Identify Gaps Early

*MAP Growth*<sup>™</sup>, the market's most trusted and accurate interim assessment, integrates its data with *Florida Reveal Math* on the Open Learning Platform.

*MAP Growth* data can save teachers time by identifying students who may need additional support to access grade-level content. **Auto-grouping** and **Recommended Targeted Skill Paths** provide support and review of critical prerequisite skills.

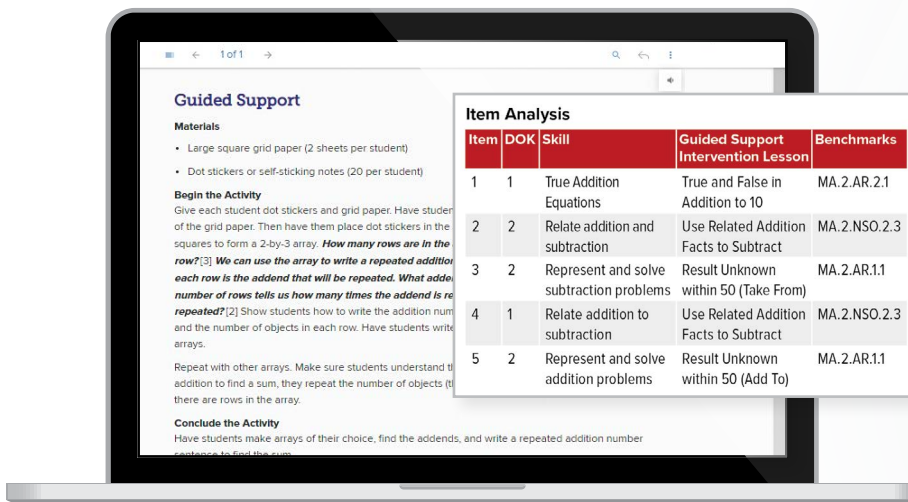
# Ensure Student Readiness for Each Unit

The unit begins with a **Readiness Diagnostic** to assess each student's knowledge of essential prerequisite skills for the unit. Teachers can utilize the targeted intervention resources to address the learning gaps and ensure students can access the grade level unit content.



## Targeted Intervention

Intervention resources, including **Guided Supports** and **Skills Support Sheets**, align to the beginning- and end-of-unit assessment items and are available at the point-of-use to quickly correct misunderstanding and target gaps with small group lessons and practice sheets.



Item-Analysis charts within the Teacher Edition provide recommended intervention resources.

# Recognize Misconceptions in the Moment

Math Probes support teachers to identify and target common misconceptions within the unit.

## Short, Formative Assessment

Each Math Probe features three to four items that are split into two parts:

- Part One** assesses students' understanding of concepts.
- Part Two** asks students to share their thinking about the concepts.



Written by contributing author Cheryl Tobey

Unit 3  
**Estimation**

CHERYL TOBEY  
MATH  
PROBES

Name \_\_\_\_\_

Four students showed their work to estimate this sum:  
 $547 + 231 + 363$

Decide if each student's process provides a correct way to estimate the sum.

**1** **Student A**

*I added:  $500 + 200 + 400$ .  
My estimate is 1,100.*

Circle Yes or No.  
**Yes**      **No**

**2** Explain why you chose Yes or No.

---

**Student B**

*First I added the numbers.  
 $547 + 231 + 363 = 1,141$   
Then I rounded. My estimate is 1,140.*

Circle Yes or No.  
**Yes**      **No**

Explain why you chose Yes or No.

Unit 3 • Add and Subtract Multi-Digit Numbers 83

## Supports to Identify and Target

Authentic student sample responses help identify the misconception. Provided remedies help teachers correct misconceptions quickly and efficiently.

Collect and Assess Student Work			
Collect and review student responses to determine possible misconceptions. See examples in If-Then chart.			
IF incorrect...	THEN the student likely...	Sample Misconceptions	
<b>Student A: No</b>	thinks that there is only one correct way to estimate a sum. For example, the student may think that you must round each number to the nearest 10. Watch for students who may calculate the exact answer (obtaining 1,141) and then round to the nearest 100 to obtain the estimate of 1,100 given by Student A.	<p>Student 1</p> <p><i>I added: <math>500 + 200 + 400</math>. My estimate is 1,100.</i></p> <p>Circle Yes or No. Yes <input checked="" type="radio"/> No <input type="radio"/></p> <p><math display="block">\begin{array}{r} 547 \\ + 231 \\ + 363 \\ \hline 1,141 \end{array}</math></p>	<p>Explain why you chose Yes or No.</p> <p><i>I made sure by showing right one.</i></p>
<b>Student B: Yes</b>	thinks that computing the exact answer and then rounding the result is a good strategy for estimating a sum.	<p>Student 2</p> <p><i>First I added the numbers.</i></p> <p><math display="block">\begin{array}{r} 547 \\ + 231 \\ + 363 \\ \hline 1,141 \end{array}</math></p> <p><i>Then I rounded. My estimate is 1,140.</i></p> <p>Circle Yes or No. Yes <input checked="" type="radio"/> No <input type="radio"/></p>	<p>Explain why you chose Yes or No.</p> <p><i>all of the regrouping is good and the answer.</i></p>
<b>Student C: No</b>	may think that rounding is the only correct way to estimate the sum. In this case, the student may not realize that using compatible numbers is another estimation strategy.	<p>Student 3</p> <p><i>I round this sum: <math>550 + 225 + 375</math>. My estimate is 1,150.</i></p> <p>Circle Yes or No. Yes <input checked="" type="radio"/> No <input type="radio"/></p>	<p>Explain why you chose Yes or No.</p> <p><i>if you add all the hundreds up like you get 1,100. if you add tens it would be over</i></p>

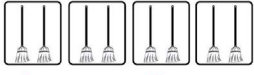
# Differentiate Based on Data

**Exit Tickets** are daily, quick formative assessments that take the guessing out of planning meaningful differentiation to raise all student learning. Teachers use students' scores on the Exit Ticket to decide on differentiated assignments from the robust differentiated resources available.

Lesson 3-1  
**Exit Ticket**

Name \_\_\_\_\_


1. How many brooms?



4 equal groups of 2

2. There are 5 bowls. Each bowl has 4 cherries. What equation represents the number of cherries in the 5 bowls?  
 $5 \times 4 = 20$

3. Which represents the beetles shown? Choose all that apply.



A. 2 equal groups of 2    B. 4 x 3  
C. 4 equal groups of 2    D. 2 x 3

**Reflect On Your Learning**

I'm confused.    I'm still learning.

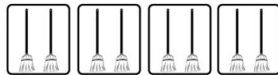
Exit Ticket: Understand Equal Groups

RVL 3-03-01 Digital Exit Ticket

Question 1 of 3

Question 1

Enter the answers.  
Look at the brooms.



How many brooms?

equal groups of

Next Question    Done and Review

**Exit Ticket Recommendations**

If students score	Then have students do
4 of 4	Additional Practice or any of the  or  activities
3 of 4	<i>Take Another Look</i> or any of the  activities
2 or fewer of 4	Small Group Intervention or any of the  activities

**Key for Differentiation**

- Reinforce Understanding
- Build Proficiency
- Extend Thinking

## Flexible Differentiation Options

Daily instruction includes workstations and online, independent activities to support daily differentiation:

### Game Station

Small-group games engage with hands-on lesson content and opportunities for collaboration.

### Application Station

Activities to apply unit content to higher depths of knowledge.

### Digital Station

Interactive games to build proficiency throughout the unit.



Written by contributing author Nicki Newton


**Fraction Art**



Repeat with 3 different colors of paper: cut into a different number of equal parts: fourths, sixths, and eighths. Arrange the equal parts of each color to make fun images. Share your work with a partner and have them identify the fractional part you used to make each image.

- How did you cut each shape into fractional parts of equal size?
- Compare the size and number of each part from two different images. How are the parts alike? How are they different?
- What do you notice about the size of each of the fractional parts of each image?
- How do halves compare with thirds, thirds with fourths, and so on?

Unit 7 • Fractions

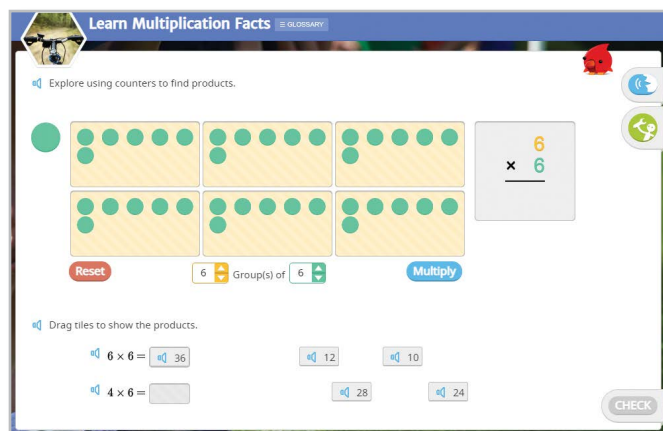


Choose the sum.  
 $60 + 25 =$

# Accelerate Learning for Every Student

*Redbird Mathematics* provides students the added advantage of a personalized learning pathway continuously adapting to them. *Redbird Mathematics* supplements *Florida Reveal Math* instruction and accelerates learning for all students from remedial to advanced.

- Deliver just the right level and amount of instruction and practice to propel learning forward.
- Use STEM connections to show students why algebra readiness matters and connect math to the real world.
- Identify and close algebra readiness gaps without requiring additional whole-class instructional time.
- Generate real-time data to make insightful, actionable decisions about every student's progress towards algebra readiness.



## Accelerated Pathways for Grades 3 and 4

Courses for *Florida Reveal Math Grade 3 Accelerated* and *Florida Reveal Math Grade 4 Accelerated* are available to help meet the needs of your students. These courses combine the standards from grades 3, 4, and 5 into a two-year pathway per Florida's B.E.ST. Standards to prepare students for grade 6.

Florida Reveal  
**MATH**<sup>®</sup>

Grade 3 Accelerated

Florida Reveal  
**MATH**<sup>®</sup>

Grade 4 Accelerated

# Instruction Informed by Experts

McGraw Hill's Learning Scientists teamed up with expert authors to create a program guided by validated academic research and classroom best practices.

## **Ralph Connelly, Ph.D.**

Professor of Education at Brock University and current member of NCTM Mathematics Education Trust Board

## **Annie Fetter**

Math Education Specialist at the 21st Century Partnership for STEM Education

## **Linda Gojak, M.Ed.**

Past President of NCTM and NCSM

## **Sharon Griffin, Ph.D.**

Professor Emerita of Education and Psychology at Clark University in Worcester, Massachusetts

## **Susie Katt, Ph.D.**

K–2 Mathematics Coordinator at Lincoln Public Schools in Lincoln, Nebraska

## **Ruth Harbin Miles, Ed.S.**

Math Coach and past NCTM (2013-2016) and NCSM (2005-2008) Board of Directors member

## **Nicki Newton, Ed.D.**

Educational consultant and the Founder and Developer of Math Online PD Academy

## **Georgina Rivera, M.Ed.**

Current 2nd Vice-President of NCSM

## **John SanGiovanni, M.Ed.**

Coordinator of Elementary Mathematics in Howard County, Maryland and past NCTM Board of Directors member

## **Raj Shah, Ph.D.**

Founder of Math Plus Academy and a founding member of the Global Math Project

## **Jeff Shih, Ph.D.**

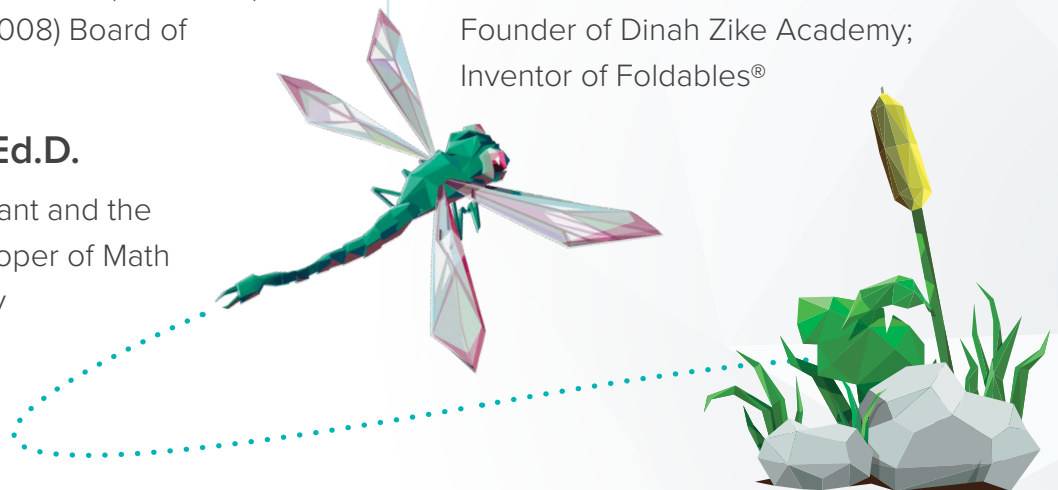
Instructor and professor at the University of Nevada and Current Member of NCTM Board of Directors

## **Cheryl Tobey, M.Ed.**

Mathematics Program Director of the Mathematics and Science Alliance

## **Dinah Zike, M.Ed.**

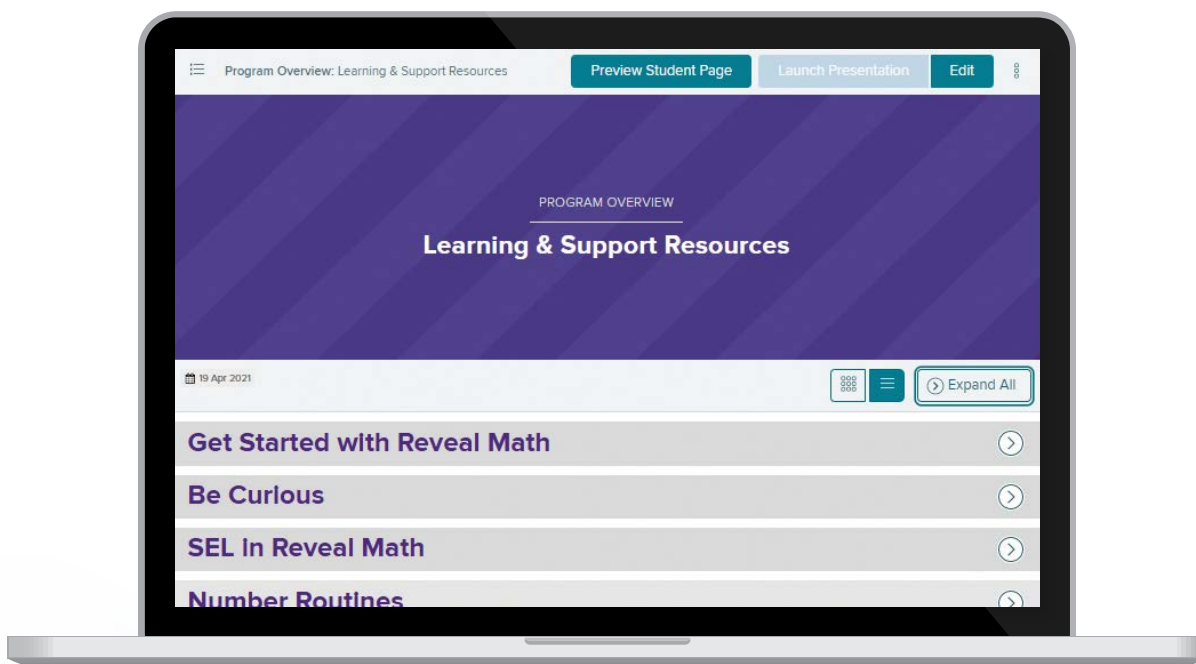
Founder of Dinah Zike Academy; Inventor of Foldables®





# Continued Learning Led by Experts

Teachers and administrators have access to a comprehensive set of online professional learning resources to support successful implementation and continued learning throughout the year.



## Quick Start

Concise resources designed to quickly get teachers up to speed with *Florida Reveal Math*.

## Digital Walkthrough

Short videos guide teachers and students through the digital platform.

## Workshop Modules

Video-based learning modules present instructional topics that are key to *Florida Reveal Math*.

## Expert Insights Videos

At the start of each unit, authors and experts share an overview of the concepts along with teaching tips and insights about how to implement the lesson.

## Instructional Videos

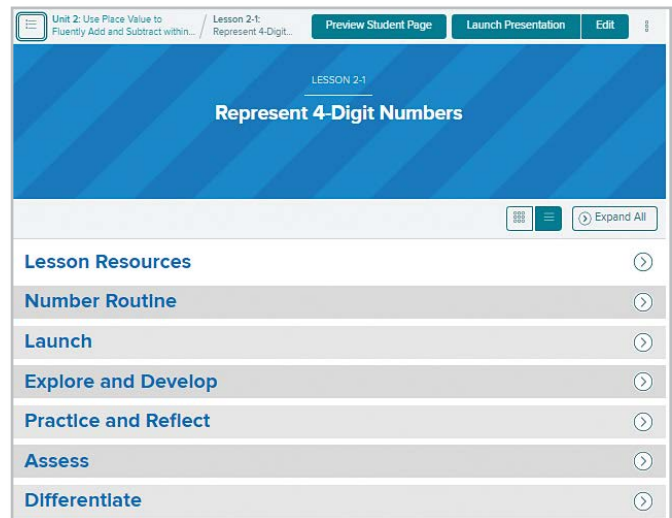
Authors showcase key features and provide implementation recommendations.

- Annie Fetter: Be Curious and Sense-Making Routines
- Raj Shah: Ignite! Activities
- Cheryl Tobey: Math Probes
- Linda Gojak: Guided and Activity-Based Exploration
- John SanGiovanni: Number Routines and Fluency

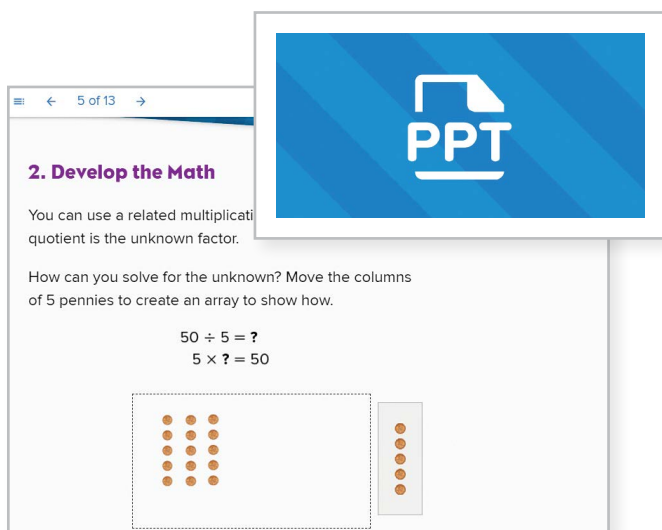
# Easily Plan Lessons and Teach with Confidence

## See all lesson resources at once

Teachers can view all the lesson resources and plan from organized lesson landing pages within the **Digital Teacher Center** that align to their print Teacher Edition layout. Lessons can be added to the calendar and easily accessed from the Teacher Dashboard on the day of learning.



## Customize lesson presentations

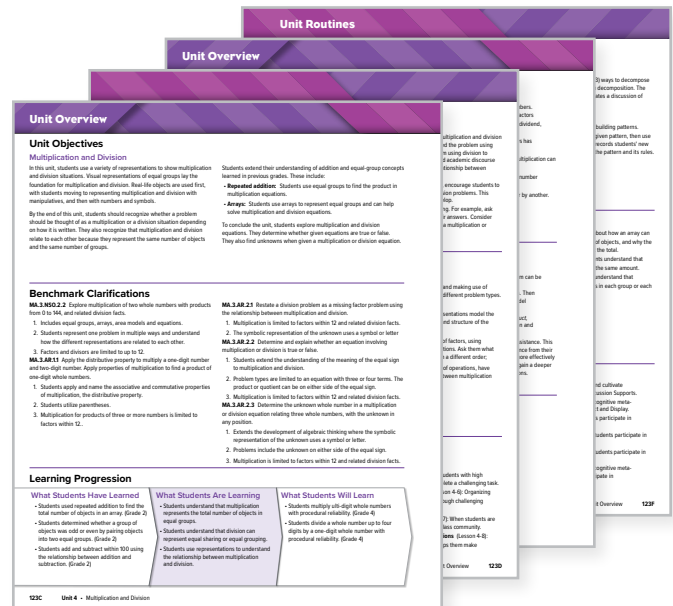


Teachers can launch interactive and engaging presentations with **embedded eTools** from their lesson landing page. **Downloadable PowerPoint presentations** allow teachers to customize or teach offline.

# Engage students with productive learning opportunities

The **Unit Overview** offers a comprehensive overview of the unit content for just-in-time professional support and includes:

- Content Overview.
- Pedagogical Overview.
- Language Overview.
- Unit Routines.



# Access content through multiple learning management systems

McGraw Hill's Open Learning platform currently integrates with the following Federated Standards: SAML 2.0 IDP, LTI 1.0, and Clever. Integration is possible with most learning management systems that support these standards, including but not limited to:

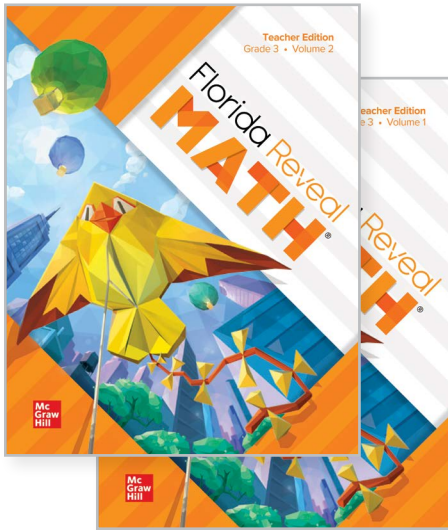
- Canvas.
- Schoology.
- Google Classroom.
- Blackboard.



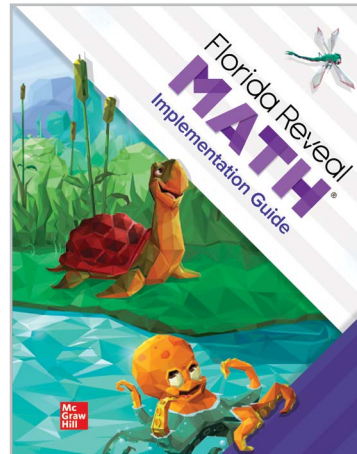
# Teacher Resources

## Print Resources

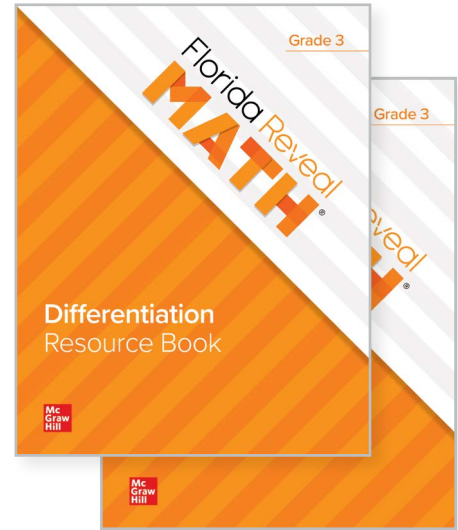
Teacher Edition, 2-volume



Implementation Guide



Differentiation Resource Book and Assessment Resource Book



## Classroom Workstation Kit

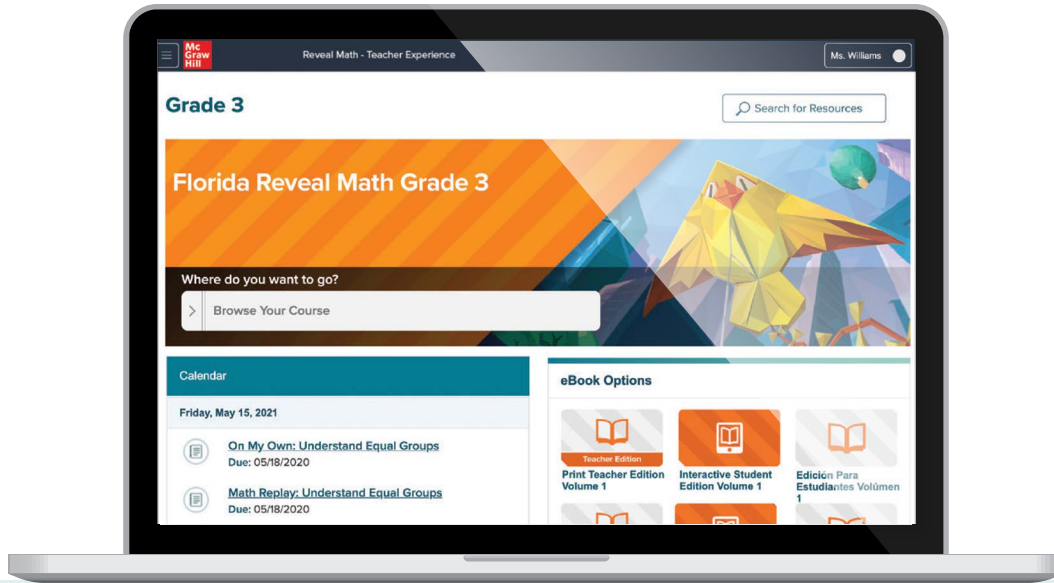
Workstation Teacher Guide



Game Station Resource Book



Application Station Cards



## Log-in to Review the Digital Teacher Center:

[my.mheducation.com](https://my.mheducation.com) Username: **flrevealk5** | Password: **flrevealk5**

## Digital Teacher Center

Teachers have access to an intuitive and easy-to-use platform where they can plan and implement engaging instruction. The teacher experience includes:

- Daily, interactive lesson presentations.
- Customizable PowerPoint lesson presentations.
- Engaging, rich differentiation resources.
- Auto-scored practice and assessment.
- Customizable assessment and item banks.
- Teacher and Administrator data and reporting.
- Professional Development workshops and videos.
- Ability to add resources, including presentations, website links, and more.
- Classroom management and grouping tools.

## Manipulative Kits

The Classroom Manipulatives Kits include hands-on materials to support lesson instruction and are organized in plastic tubs for easy storage.

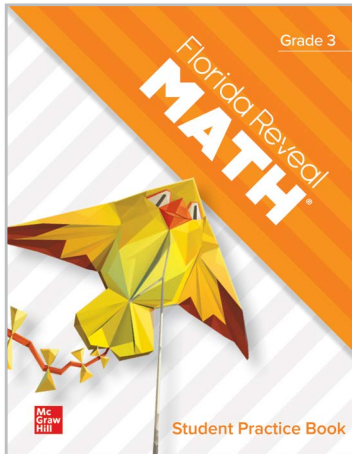
# Student Resources

## Print Resources

Student Edition, 2-volume



Student Practice Book

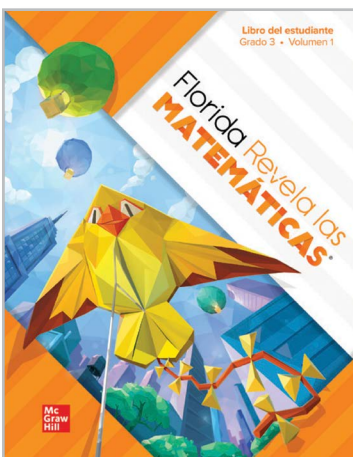


State Assessment Practice Book



## Spanish Resources

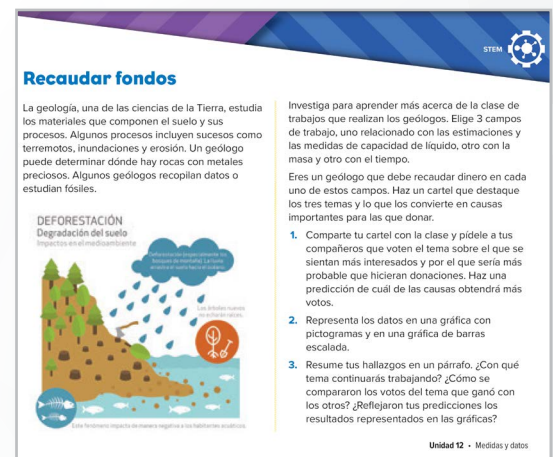
Student Edition Volume 1



Student Edition Volume 2



Application Station Cards





Log-in to Review the Digital Student Center:

[my.mheducation.com](https://my.mheducation.com) | Username: **flrevealk5se** | Password: **flrevealk5se**

## Digital Student Center

Designed with the needs of elementary students in mind, the Digital Student Center offers access to a robust set of engaging digital tools and interactive learning aids, including:

- Interactive Student Editions.
- Daily, interactive practice with embedded learning aids.
- Online assessments with interactive question types.
- Adaptive instruction and practice through *Redbird Mathematics*.
- Animations, glossary, videos, and eTools.
- Digital games designed for purposeful practice.
- Instructional mini-lessons to reinforce understanding.
- Rich exploratory STEM Adventures.
- Visual and dynamic Web Sketchpad® activities.

# Florida Reveal **MATH**<sup>®</sup>

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Reveal the Full Potential in Every Student  
Learn more at [mheonline.com/florida](http://mheonline.com/florida)