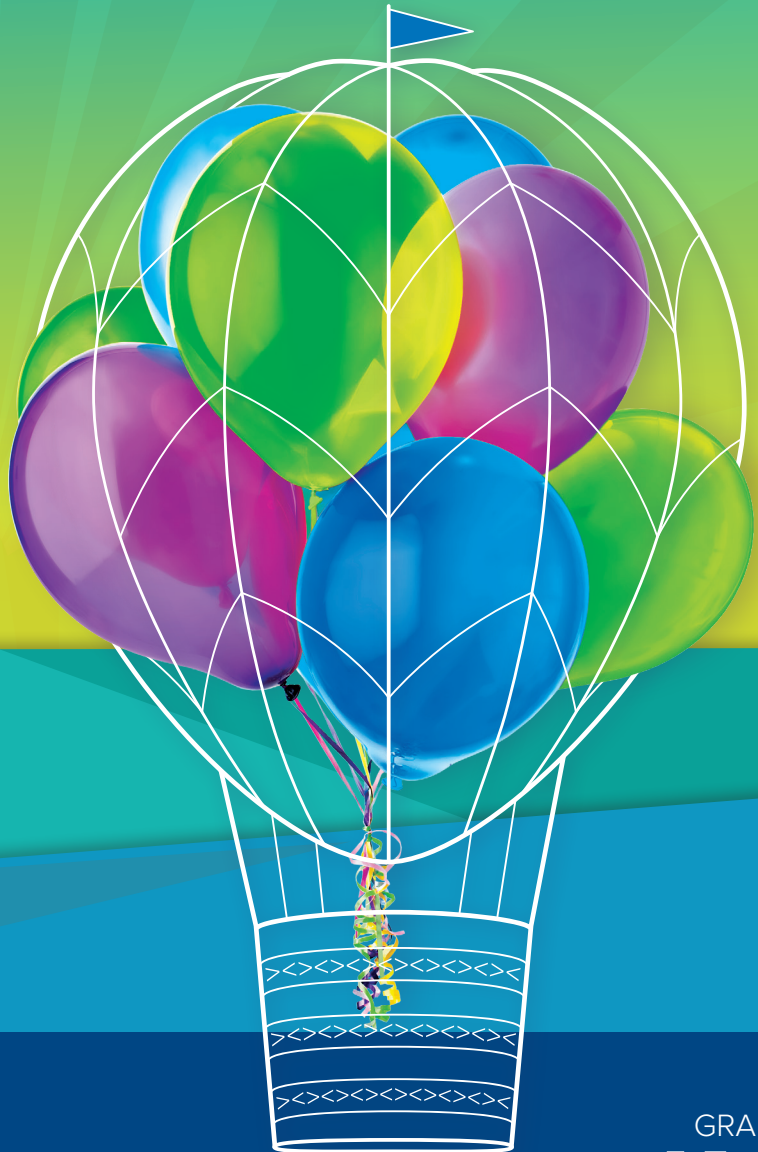




Everyday Mathematics®

How Children Learn.



GRADES
K-6

An Investment in How Your Children Learn

The *Everyday Mathematics*® Difference

Behind each student success story is a team of teachers and administrators who set high expectations for themselves and their students. *Everyday Mathematics* is designed to help you achieve those expectations with a evidence-based approach to teaching mathematics.

An *Everyday Mathematics* classroom has a unique energy that's a result of student engagement and excitement about learning math. This environment encourages growth mindset and a positive disposition about learning that will help your children succeed long after they've left your classroom.

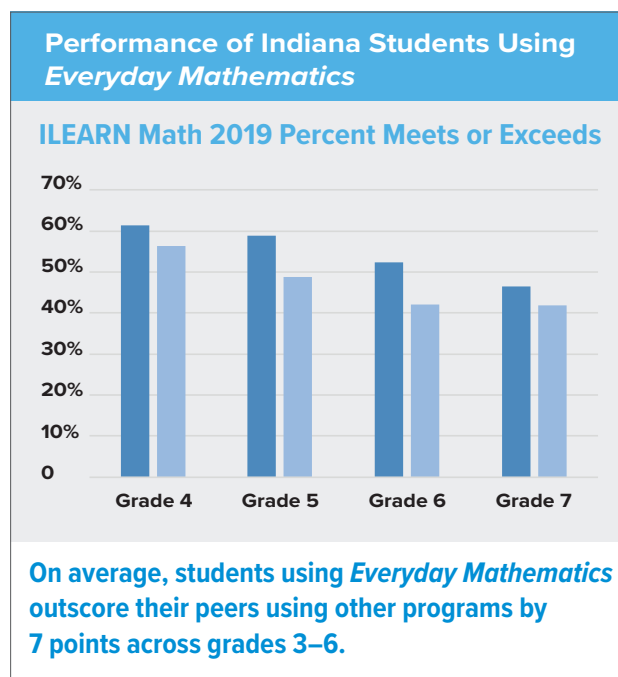
Evidence of Efficacy

Decades of research and evidence show that children who use *Everyday Mathematics* develop deeper conceptual understanding and greater depth of knowledge than children using other programs. They develop powerful, life-long habits of mind such as perseverance, creative thinking, and the ability to express and defend their reasoning.

Updates for Indiana©2023

Based on feedback from educators in Indiana, we've updated *Everyday Mathematics* with enhancements to help your students master key concepts and you teach more confidently.

- **100% alignment** to the Indiana Academic Standards for Mathematics
- **Fully Integrated** Indiana specific lessons and content
- New **digital Student Math Journals** that provide a more seamless experience for users who prefer the print version of the Journals
- Enhanced assessment with **autoscoring** functionality
- Two new **Independent Problem Solving** math boxes in every unit of every grade that provide specific opportunities for students to work with non-routine applications



A Commitment to Educational Equity

Everyday Mathematics was founded on the principle that every child can and should learn challenging, interesting, and useful mathematics. The program is designed to ensure that each of your students develops positive attitudes about math and powerful habits of mind that will carry them through college, career, and beyond.



Provide Multiple Pathways to Learning

Through *Everyday Mathematics*' spiraling structure, students have multiple opportunities to access math concepts in a variety of ways.



Access High Quality Materials

You can be confident teaching with *Everyday Mathematics* because your instruction is grounded in a century of research in the learning sciences and has been rigorously field-tested and proven effective in classrooms.



Use Data to Drive Your Instruction

The data you collect in the Teacher Center drives a suite of reports that help you easily tailor your instruction to meet the needs of every child in your classroom.



Create a System for Differentiation in Your Classroom

Turn your classroom into a rich learning environment that provides multiple pathways for each of your children to acquire content, make sense of ideas, develop skills, and demonstrate what they know.



Build and Maintain Strong Home-School Connections

Everyday Mathematics provides a wealth of resources to help you extend what your students learn in your classroom to what they can do beyond the classroom.



Transforming Your Classroom

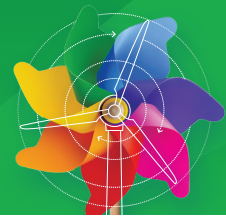


The *Everyday Mathematics* Classroom

A pervasive element of an *Everyday Mathematics* classroom is collaborative learning. Working collaboratively in classrooms creates an atmosphere for sharing ideas and problem-solving strategies. As students encounter different ways of solving problems from peers, they learn to interpret and evaluate each other's point of view and engage in discussions that address the strengths and weaknesses of a variety of approaches.

Each lesson activity includes recommendations for one or more grouping options, helping you create a flexible, dynamic learning environment every day.





The *Everyday Mathematics* Lesson

Embedded Rigor and Spiraled Instruction

Each lesson weaves new content with practice of content that was introduced in earlier lessons. The structure of the lesson ensures that your instruction includes all elements of rigor in equal measure with problem solving at the heart of everything you do.

Review

Warm Up

Fluency

Lessons begin with scaffolded problem-solving activities that provide fluency practice and opportunities for math talks.

Introduction of New Content

Focus

Conceptual Understanding and Application

Math Message Students first show what they know with an engaging task that provides data that will inform the rest of the lesson.

Focus Activities

Introduce new content, skills, and concepts.

Review

Practice

Application and Fluency

Spiraled practice that revisits content from earlier lessons.

Lesson
2-2

Addition Number Stories

Overview Children write and solve addition number stories.

			Standards
			Focus Clusters • Represent and solve problems involving addition and subtraction. • Add and subtract within 20.
1	Warm Up 15–20 min Before You Begin Select and sequence Quick Look Cards 102, 78, and 82 for the Mental Math and Fluency activity. For the Focus portion of the lesson, create a unit box for display. Vocabulary addition number story • unit box • label • number model	Materials Mental Math and Fluency Children solve addition facts using Quick Look Cards. Daily Routines Children complete daily routines.	2.OA.2 See pages xiv–xvii.
2	Focus 20–30 min Math Message Children solve an addition number story. Representing Number Stories Children are introduced to unit boxes and number models. Creating and Solving Addition Number Stories Children create addition number stories and represent them with unit boxes and number models. Writing Number Stories Children write and solve number stories about a picture. <i>Math Journal 1</i> , p. 19 <div style="display: flex; align-items: center;"> <div style="color: red; font-weight: bold; margin-right: 5px;">✓</div> <div> Assessment Check-In See page 160. Expect most children to be able to write an addition number story to match a picture, write a number model to represent their number story, and solve their number story. <i>Math Journal 1</i>, p. 19 </div> </div>		2.OA.1, 2.OA.2 2.OA.1, 2.OA.2 2.OA.1, 2.OA.2 SMP2 2.OA.1, 2.OA.2 SMP2 2.OA.1, SMP2
3	Practice 10–20 min Completing Number-Grid Puzzles Children fill in missing numbers on number-grid puzzles. <i>Math Journal 1</i> , p. 20 Math Boxes 2-2 Children practice and maintain skills. <i>Math Journal 1</i> , pp. 21 and inside back cover Home Link 2-2 Homework Children write an addition number story. <i>Math Masters</i> , p. 28		2.NBT.2, 2.NBT.8 See page 161. 2.OA.1, 2.OA.2

Go Online

to see how mastery develops for all standards within the grade.

156
Unit 2 | Fact Strategies

Supporting Rich Mathematical Instruction

Everyday Mathematics includes a wealth of resources that help you implement research-based instructional practices in every lesson.

Math Talk

Opportunities to share strategies and reasoning as well as critique others' reasoning are embedded throughout *Everyday Mathematics*, making it easy to facilitate math discussions every day.

Collaboration

Students work in small groups and with partners formed according to their needs, helping you create a rich learning environment that supports powerful instruction.

Perseverance and Productive Struggle

Everyday Mathematics helps you create a culture for growth mindset with lessons, activities, and games designed to embrace the habits of mind.

Hands-On Exploration

Activities often involve modeling mathematics concretely, visually, and verbally—deepening your students' understanding of concepts, skills, and representational fluency.

Rich Tasks and Mathematical Reasoning	Journal p. 18: Writing/Reasoning	Creating and Solving Addition Number Stories, p. 159 Writing Number Stories, pp. 159–160	■ Using Double Ten Frames, pp. 164–165 Journal p. 23: Writing/Reasoning	■ Exploring the Making-10 Strategy, pp. 170–172 ■ Practicing the Making-10 Strategy, p. 172 ■ Extra Practice, p. 169
Mathematical Discourse	Making Exchanges pp. 152–153 Introducing and Playing The Exchange Game, pp. 154–155 Summarize, p. 155	Creating and Solving Number Stories, p. 159	Math Message, pp. 164 ■ Using Double Ten Frames, p. 164	■ Exploring the Making-10 Strategy, pp. 170–172 Playing The Number-Grid Game, p. 173
Distributed Practice	Daily Routines Mental Math & Fluency, p. 152 Introducing and Playing The Exchange Game, p. 155 Math Boxes 2-1, p. 155	Daily Routines ■ Mental Math & Fluency, p. 158 Completing Number-Grid Puzzles, p. 161 ■ Math Boxes 2-2, p. 161	Daily Routines ■ Mental Math & Fluency, p. 164 ■ Playing Fishing for 10, p. 167 Math Boxes 2-3, p. 167	Daily Routines ■ Mental Math & Fluency, p. 170 Playing The Number-Grid Game, p. 173 ■ Math Boxes 2-4, p. 173
Differentiation Support	Differentiation Options, p. 151 ELL Support, p. 151 Online Differentiation Support 2-1 Adjusting the Activity, p. 154	Differentiation Options, p. 157 ELL Support, p. 157 Online Differentiation Support 2-2 Common Misconception, p. 159 Adjusting the Activity, pp. 160–161	Differentiation Options, p. 163 ELL Support, p. 163 Online Differentiation Support 2-3	Differentiation Options, p. 169 ELL Support, p. 169 Online Differentiation Support 2-4 Adjusting the Activity, p. 171

Every Unit Organizer includes a helpful chart that shows where the building-blocks for rich mathematical instruction appear throughout every unit.

The *Everyday Mathematics* Difference

Resources available only from *Everyday Mathematics*

Open Response and Reengagement Lessons

Each unit includes a specific lesson that develops students' ability to think mathematically by explicitly engaging in the mathematical practices to solve a non-routine, rigorous problem.

2-Day Lesson
1-5
Open Response and Reengagement

Number-Grid Puzzles

Overview **Day 1:** Children use patterns to solve an open response problem. **Day 2:** Children discuss selected solutions and explanations and revise their work.

Day 1: Open Response

Before You Begin
Make sure the Number-Grid Poster is visible during work on Problem 1 of the open response problem. Have copies of Math Masters, page TA4 available for children who need it. If possible, schedule time to review children's work and plan for Day 2 of the lesson with your grade-level team.

Vocabulary
pattern • number grid

1 Warm Up 3–5 min

Mental Math and Fluency
Children count by 5s and 10s.

2a Focus 56–60 min

Math Message
Children extend a coin pattern and discuss how they...

Standards
Focus Clusters

- Understand place value.
- Use place value understanding and properties of operations to add and subtract.

2.NBT.2

Math Journal 1, p. 3
SMP7

Activity Cards

Activity Cards provide rich tasks for readiness, enrichment, and extra practice and are perfect for flexible stations.

Finding Combinations of 100

What You Need
Number Grid, page 46
crayons or markers

What To Do
1 On the Number Grid page, look for a pair of numbers that add to 100.
Example: 49 and 51 could be colored yellow.
2 Shade in the pair of numbers with the same color.
3 Find other pairs of numbers that add to 100.
4 Shade each pair with a different color.

49 plus 51 equals 100!



Playing Two-Fisted Penny Addition

What You Need
10 pennies or counters
paper

What To Do
Work with a partner.
1 Put 10 pennies on the table in front of you.
2 Take some pennies in each hand. Make sure you take all 10 pennies.
3 Count the pennies in each hand. Tell your counts to a partner.
4 Record your penny counts on paper.
5 Repeat Steps 1–4 again.
Talk About It!
How many ways did you and your partner make 10?

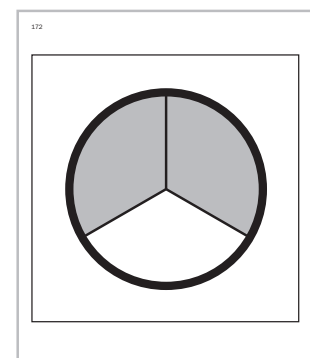
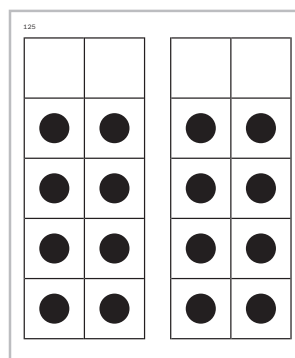
More You Can Do
Do the activity again. Try using 9, 12, or 20 pennies.

I have 3 pennies in my left hand and 7 pennies in my right hand.



Quick Looks



Quick Look routines develop number sense by allowing children to visually group quantities, break them apart and put them back together. As students encounter various combinations, they develop fact strategies that lead to fact fluency.



Data-Driven Instruction

Everyday Mathematics includes a complete set of tools and resources to help teachers evaluate the mastery of the Indiana Academic Standards for Mathematics for each child while providing actionable data to inform instruction.

Evaluate

**Assessment Check-In** 2.OA.1
Math Journal 1, p. 19
Expect most children to succeed at writing an addition number story that matches the picture on Journal page 19, writing a number model to represent their number story, and solving their number story. For those who struggle with one or more of these tasks, suggest that they model their stories with manipulatives or tallies as described in the Adjusting the Activity note or have them complete the Extra Practice activity on page 157. GMP2.1
**Evaluation Quick Entry** Go online to record children's progress and to see trajectories toward mastery for these standards.

Math Boxes
Preview for Unit 3
Lesson 2-9
DATE: TIME:
Math Boxes

Complete.

in	out
2	4
5	10
10	20
8	16

Cross off names that do not belong. Add at least 2 different names.

Write each number in expanded form.

Example: $579 = 500 + 70 + 9$

$251 = 200 + 50 + 1$

$425 = 400 + 20 + 5$

$640 = 600 + 40 \text{ or } 600 + 40 + 0$

Solve.

$12 = 2 \times 6$

Daily Formative Assessments

Assessment Check-In provides daily lesson-based assessment opportunities.

Pre-Unit Assessment

Preview Math Boxes appear in two lessons toward the end of each unit and help you gauge readiness for upcoming content, plan instruction, and choose appropriate differentiation activities. In addition, data recorded in prior units can provide valuable information to inform instruction in the upcoming unit.

Unit Assessments

Progress Check lessons at the end of each unit provide formal opportunities to assess children's progress toward mastery of content and process/practice standards that are the focus of the unit.

Record

A full suite of tools including rubrics and class checklists are available to help you track your children's progress.

EverydayMathematics					
Lesson 2-13 (Day 1): Assess: Unit 2 Assessment					
Add Notes					
	Anna Z.	Brian L.	Danny P.	Elle C.	
Score +	Score +	Score +	Score +	Score +	
Score - Problem 1	M	M	NM	A	
Score - Problem 2 - Content	NM	M	M	M	
Score - Problem 2 - Practices	M	PM	NM	PM	
Score - Problem 3	M	M	NM	PM	
Score - Problem 4	M	PM	M	M	
Score - Problem 5	M	M	M	M	

Report

The Data Dashboard is a responsive reporting tool that delivers actionable information to help you adapt and personalize your instruction and provide feedback to families and administrators.

Online Resources

Digital tools to help you confidently deliver effective mathematics instruction in your classroom are included with every implementation. Everything you need is included in one easy to navigate place, you can customize your lessons by adding resources and notes. Everything is saved and available to you year after year.

The Teacher Center

Everything you need for every lesson is right where you need it, when you need it, including editable versions of every lesson and activity.

The screenshot shows the Teacher Center interface for Lesson 2-2, titled "Addition Number Stories". The interface includes a navigation bar with "Unit 2" and "Lesson 2-2" selected. A large banner image features a sailboat with a green leaf as its sail. Below the banner is a "Lesson Presentation" button. To the right is a sidebar with icons and labels for: Plan Your Lesson, Resources, Games, Quick Entry Evaluation, Today's Data, Differentiation, and Print Worksheets. The main content area is titled "OVERVIEW AND MATERIALS" and includes a description: "Children write and solve addition number stories." It also has sections for "Before You Begin", "Vocabulary" (with links for addition number story, unit box, label, and number model), and "Materials". A "PRINT" button is at the bottom left.

The Student Learning Center

Engineered to help each of your students experience confidence and develop positive feelings about math in a digital environment that keeps them engaged and excited about learning.

The screenshot shows the Student Learning Center interface on a tablet. The interface is titled "Welcome" and features a large banner for "Lesson 2-2" with the same sailboat and leaf graphic. Below the banner are buttons for "Lesson 2-1" and "Lesson 2-3". To the right is a "My Reference Book" button. Below the banner is an "eToolkit" button. At the bottom is a row of icons for: Geometer's Sketchpad Activities, Tutorial Videos, EM Games Online, Favorites, Assignments, and EM at Home.

Building Mathematical Literacy

Build a solid foundation for success in your classroom through meaningful practice opportunities, discussion of reasoning, communicating mathematically, and engaging in math practices every day.

Focused Instruction

The instructional design allows you to focus on critical areas of instruction for each grade.

Focus

In Unit 1, children explore number patterns, number names, comparisons of numbers, and mathematical tools.

Major Clusters

2.OA.B Add and subtract within 20.

2.NBT.A Understand place value.

Supporting Clusters

2.MD.C Work with time and money.

Coherence Within and Across Grades

Each unit contains information about how its Focus Standards were developed in prior units and grades, and how they lay the foundation for future lessons.

Coherence

The table below describes how standards addressed in the Focus parts of to the mathematics that children have done in the past and will do in the future.

Links to the Past	
2.OA.2	In Unit 1, children played <i>Fishing for 10</i> to review their recall of addition combinations of 10. In Grade 1, children added and subtracted within 20 and demonstrated fluency for addition and subtraction within 10.
2.OA.3	In Unit 1, children explored even and odd numbers using concrete and visual models. In Grade 1, children wrote number models to represent pictures of real-world items with paired features.

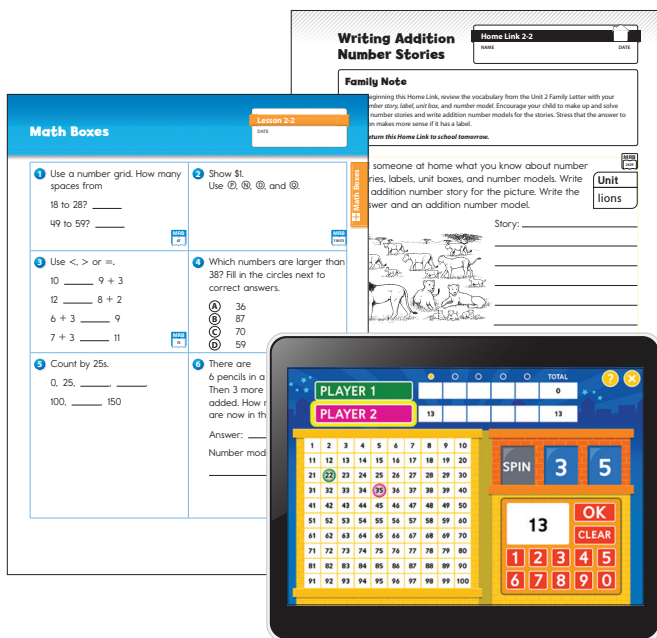
Rigorous Content

Everyday Mathematics gives you the tools and resources you need to emphasize conceptual understanding, procedural fluency, and application with equal intensity.

Unit 2 Organizer				
Planning for Rich Math Instruction				
	2-1 Grouping by 10	2-2 Addition Number Stories	2-3 Doubles and Combinations of 10	2-4 The Making-10 Strategy
RIGOR	Conceptual Understanding Place value Making Exchanges, pp. 152–153	Addition number models Representing Number Stories, pp. 158–159	Doubles and combinations of ten ■ Using Double Ten Frames, pp. 164–165 ■ Naming Doubles and Combinations of 10, pp. 165–166	Addition strategies ■ Math Message, p. 170 ■ Exploring the Making-10 Strategy, pp. 170–172
	Procedural Skill and Fluency Daily Routines Mental Math & Fluency, p. 152	Daily Routines ■ Mental Math & Fluency, p. 158 ■ Math Message, p. 158 ■ Home Link 2-2, p. 161	Daily Routines ■ Mental Math & Fluency, p. 164 ■ Using Double Ten Frames, pp. 164–165 ■ Naming Doubles and Combinations of 10, pp. 165–166 ■ Playing <i>Fishing for 10</i> , p. 167 Math Boxes ■ 1, ■ 4 ■ Home Link 2-3, p. 167	Daily Routines ■ Mental Math & Fluency, p. 170 ■ Math Message, p. 170 ■ Exploring the Making-10 Strategy, pp. 170–172 ■ Practicing the Making-10 Strategy, p. 172 ■ Playing <i>The Number Grid Game</i> , p. 172 ■ Enrichment, p. 169 ■ Extra Practice, p. 169 ■ Home Link 2-4 p. 173
	Applications Daily Routines ■ Making Exchanges, pp. 152–153 ■ Counting Money, p. 153 Home Link 2-1, p. 155 ■ Introducing and Playing <i>The Exchange Game</i> , p. 154 Extra Practice, p. 151	Daily Routines ■ Representing Number Stories, pp. 158–159 ■ Creating and Solving Addition Number Stories, p. 159 Writing Number Stories, pp. 159–160 ■ Home Link 2-2, p. 161	Daily Routines ■ Mental Math & Fluency, p. 164	Daily Routines Journal p. 25, #2, #6

Practice Embedded in Every Lesson

Because *Everyday Mathematics* is a problem-based curriculum, practice opportunities appear naturally in daily instruction. The lessons' practice activities create confidence that your students are progressing toward mastery.



Math Boxes

Provide students with daily distributed practice of previously taught skills and concepts to improve long-term retention.

Home Links

Allow students to practice today's lesson and help family members support their math learning.

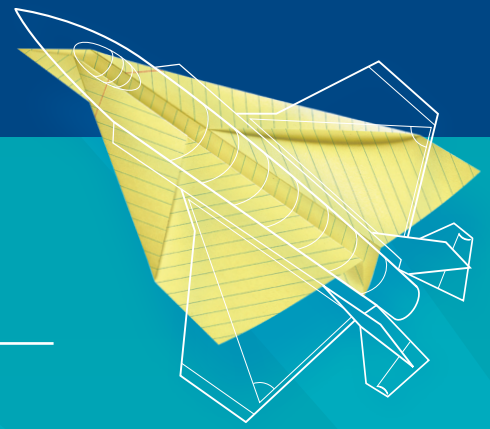
Games

Provide opportunities for fluency practice, along with collaborative learning experiences.

Mathematical Literacy Sets The Stage for Algebra

Everyday Mathematics encourages children to recognize and analyze patterns, study and represent relationships, make generalizations, and analyze how things change—which are the building blocks of algebraic thinking.

GRADE	K	1	2	3	4	5	6	
	Instruction leverages children's natural love and curiosity about mathematics by having them work with patterns.		The use of patterns becomes a tool that helps children recognize and understand relationships between numbers.				Children focus on connecting numbers and operations to more symbolic representations.	



Everyday Mathematics. How Children Learn.

- Fully customized for the Indiana Academic Standards for Mathematics
- Fully digital options that adapt to your classroom
- Gives each student the opportunity to achieve
- Connects math to the world outside the classroom

Learn more at everydaymath.com



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