

# **EUREKA MATH<sup>2</sup><sup>®</sup>**

Participant Handout

## **Launch**

Bringing *Eureka Math<sup>2</sup>* to Life, K–5

***A Story of Units<sup>®</sup>***

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## Contents

|   |    |
|---|----|
| Session Opening .....                                     | 3  |
| Focus Questions .....                                     | 3  |
| Math Is a Story .....                                     | 4  |
| Structure of <i>Eureka Math</i> <sup>2</sup> .....        | 5  |
| Year at a Glance.....                                     | 5  |
| Module Structure .....                                    | 6  |
| Topic Structure .....                                     | 6  |
| Grade 1 Module 3 Lesson 1.....                            | 7  |
| Problem Set.....  | 7  |
| Exit Ticket .....   | 10 |
| See It in the <i>Teach Book</i> —Lesson Structure .....   | 11 |
| Explore Your Module 1.....                                | 12 |
| Introduction to the Digital Platform.....                 | 13 |
| Grade 3 Module 1 Lesson 5.....                            | 14 |
| Classwork .....   | 14 |
| Talking Tool .....  | 15 |
| Supports for Learning.....                                | 16 |
| Universal Design for Learning .....                       | 16 |
| Engagement Strategies .....                               | 17 |
| Discourse Structures .....                                | 17 |
| Instructional Routines .....                              | 19 |
| Fluency Practice in <i>Eureka Math</i> <sup>2</sup> ..... | 20 |
| Explore Your Module 1.....                                | 25 |
| Assessment Overview .....                                 | 26 |
| Explore Your Module.....                                  | 27 |
| K–2 .....   | 27 |
| 3–5.....  | 29 |
| Credits .....   | 31 |
| Works Cited.....  | 31 |



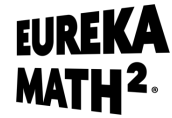
## Math Is a Story

**Directions:** Complete the number bonds.

|   |  |
|---|--|
| <p>A</p> <p>10 tenths</p> <p>8 tenths</p>                                 | <p>B</p> <p>1 foot</p> <p>2 inches</p>             |
| <p>C</p> <p><math>\frac{10}{8}</math></p> <p><math>\frac{8}{8}</math></p> | <p>D</p> <p>1</p> <p><math>8 \times 0.1</math></p> |

# Participant Handout

Launch: Bringing *Eureka Math*<sup>2</sup> to Life, K–5



## Structure of *Eureka Math*<sup>2</sup>

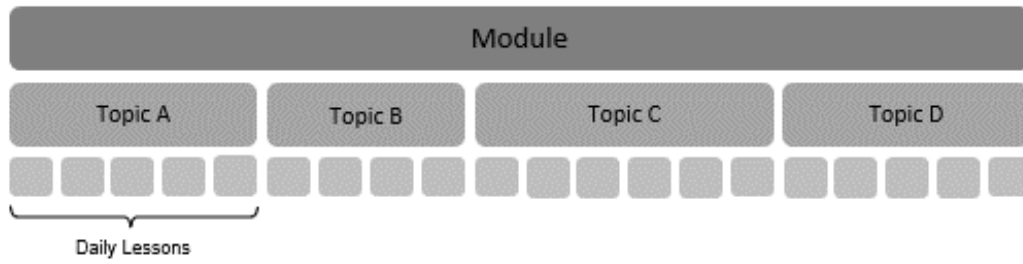
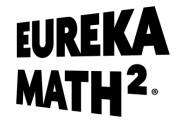
### Year at a Glance

| STORY OF UNITS |   |  |   |   |  |  |
|----------------|---|--|---|---|--|--|
|                | Level K<br>Part-Part-Total  | Level 1<br>Units of Ten  | Level 2<br>Ten Tens   | Level 3<br>Units of Any Number  | Level 4<br>Fractional Units  | Level 5<br>Fractions Are Numbers   |
| Trimester 1    | <b>Module 1: Counting and Cardinality</b><br>7 Topics   33 Lessons<br><br><b>Module 2: Two- and Three-Dimensional Shapes</b><br>3 Topics   16 Lessons<br><br><b>Module 3: Comparison</b><br>4 Topics   22 Lessons | <b>Module 1: Counting, Comparison, and Addition</b><br>4 Topics   25 Lessons<br><br><b>Module 2: Addition and Subtraction Relationships</b><br>5 Topics   23 Lessons<br><br><b>Module 3: Properties of Operations to Make Easier Problems</b><br>5 Topics   26 Lessons<br><br><b>Module 4: Comparison and Composition of Length Measurements</b><br>3 Topics   14 Lessons<br><br><b>Module 5: Place Value Concepts to Compare, Add, and Subtract</b><br>5 Topics   25 Lessons<br><br><b>Module 6: Attributes of Shapes • Advancing Place Value, Addition, and Subtraction</b><br>6 Topics   31 Lessons | <b>Module 1: Place Value Concepts through Metric Measurement and Data • Place Value, Counting, and Comparing Within 1,000</b><br>9 Topics   38 Lessons<br><br><b>Module 2: Addition and Subtraction Within 200</b><br>4 Topics   27 Lessons<br><br><b>Module 3: Shapes and Time with Fraction Concepts</b><br>4 Topics   19 Lessons<br><br><b>Module 4: Addition and Subtraction Within 1,000</b><br>5 Topics   24 Lessons<br><br><b>Module 5: Money, Data, and Customary Measurement</b><br>3 Topics   16 Lessons<br><br><b>Module 6: Multiplication and Division Foundations</b><br>4 Topics   18 Lessons | <b>Module 1: Multiplication and Division with Units of 2, 3, 4, 5, and 10</b><br>5 Topics   23 Lessons<br><br><b>Module 2: Place Value Concepts through Metric Measurement</b><br>4 Topics   25 Lessons<br><br><b>Module 3: Multiplication and Division with Units of 0, 1, 6, 7, 8, and 9</b><br>4 Topics   25 Lessons<br><br><b>Module 4: Multiplication and Area</b><br>4 Topics   19 Lessons<br><br><b>Module 5: Fractions as Numbers</b><br>5 Topics   27 Lessons<br><br><b>Module 6: Geometry, Measurement, and Data</b><br>4 Topics   26 Lessons | <b>Module 1: Place Value Concepts for Addition and Subtraction</b><br>5 Topics   24 Lessons<br><br><b>Module 2: Place Value Concepts for Multiplication and Division</b><br>5 Topics   26 Lessons<br><br><b>Module 3: Multiplication and Division of Multi-Digit Numbers</b><br>6 Topics   24 Lessons<br><br><b>Module 4: Foundations for Fraction Operations</b><br>6 Topics   34 Lessons<br><br><b>Module 5: Place Value Concepts for Decimal Fractions</b><br>4 Topics   14 Lessons<br><br><b>Module 6: Angle Measurements and Plane Figures</b><br>4 Topics   20 Lessons | <b>Module 1: Place Value Concepts for Multiplication and Division with Whole Numbers</b><br>4 Topics   20 Lessons<br><br><b>Module 2: Addition and Subtraction with Fractions</b><br>4 Topics   17 Lessons<br><br><b>Module 3: Multiplication and Division with Fractions</b><br>4 Topics   22 Lessons<br><br><b>Module 4: Place Value Concepts for Decimal Operations</b><br>5 Topics   30 Lessons<br><br><b>Module 5: Addition and Multiplication with Area and Volume</b><br>4 Topics   28 Lessons<br><br><b>Module 6: Foundations to Geometry in the Coordinate Plane</b><br>4 Topics   20 Lessons |
| Trimester 2    |   |  |   |   |  |  |
| Trimester 3    |   |  |   |   |  |  |
| Trimester 4    |   |  |   |   |  |  |
|                | <b>TOTAL:</b><br>25 Topics   140 Lessons  | <b>TOTAL:</b><br>28 Topics   144 Lessons   | <b>TOTAL:</b><br>29 Topics   142 Lessons  | <b>TOTAL:</b><br>26 Topics   145 Lessons  | <b>TOTAL:</b><br>30 Topics   142 Lessons   | <b>TOTAL:</b><br>25 Topics   137 Lessons   |

\*Some lessons in each grade level are optional, clearly designated in the instructional sequence. Here, they are included in the total number of lessons per grade level.

# Participant Handout

Launch: Bringing *Eureka Math*<sup>2</sup> to Life, K–5



**Directions:** As you explore your *Teach* book, think about the following question: What information will support you in teaching a lesson?

## Module Structure

## Topic Structure

# Grade 1 Module 3 Lesson 1

## Problem Set

EUREKA MATH<sup>2</sup>

1 • M3 • TA • Lesson 1



**1**

Name \_\_\_\_\_

1. Make 10 to add.



Show how you know.



$$5 + 2 + 5 = \square$$



$$9 + 1 + 8 = \square$$

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1 • M3 • TA • Lesson 1

EUREKA MATH<sup>2</sup>

2. Make 10 to add.



Show how you know.



$$6 + 2 + 8 = \square$$



$$9 + 7 + 1 = \square$$

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EUREKA MATH<sup>2</sup>

1 • M3 • TA • Lesson 1

3. Make 10 to add.



Show how you know.

$$1 + 9 + 3 =$$

---

$$5 + 6 + 5 =$$

---

$$9 + 8 + 2 =$$

# Participant Handout

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## Exit Ticket

EUREKA MATH<sup>2</sup>

1 • M3 • TA • Lesson 1



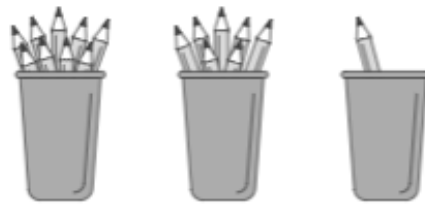
1

Name \_\_\_\_\_

Make 10 to add.



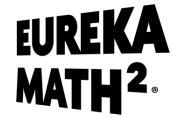
Show how you know.



$$9 + 7 + 1 = \square$$

## Participant Handout

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### See It in the *Teach* Book—Lesson Structure

**Directions:** Read grade 1 module 3 lesson 1 and consider the role of each component outlined in the table. Find examples from the lesson that support the role of each component.

| Lesson Component | Role  |
|------------------|---|
| Fluency          | <ul style="list-style-type: none"><li>• Provides distributed practice</li><li>• Activates prior knowledge</li><li>• Bridges small learning gaps</li><li>• Builds confidence and develops skills</li></ul>   |
| Launch           | <ul style="list-style-type: none"><li>• Creates an accessible entry point into the day’s learning</li><li>• Activates prior knowledge</li><li>• Builds context</li><li>• Provides rationale for learning</li><li>• Often a low-floor, high-ceiling design</li></ul> |
| Learn            | <ul style="list-style-type: none"><li>• Presents new learning related to the objective</li><li>• Incorporates a variety of learning experiences</li><li>• Rich in discourse and metacognition</li><li>• Opportunity for practice</li></ul>                          |
| Land             | <ul style="list-style-type: none"><li>• Helps students synthesize the day’s learning</li><li>• Includes key questions related to the larger knowledge takeaways</li><li>• Includes the Exit Ticket (grades 1–5)</li></ul>   |

**Directions:** Review the grade 1 module 3 lesson 1 Lesson Overview.

- What do you notice? What do you wonder?

---

## Explore Your Module 1

**Directions:** Examine your lesson.

- How does each component prepare students for what will happen next?

- What will this lesson structure mean for you? For your students?

### **TEACHABILITY<sup>2</sup>**

Improved clarity, focus, and additional resources to bring instruction and assessment to life

### **ACCESSIBILITY<sup>2</sup>**

Consistent opportunities and support for all learners to engage with grade-level content

### **ENGAGEMENT<sup>2</sup>**

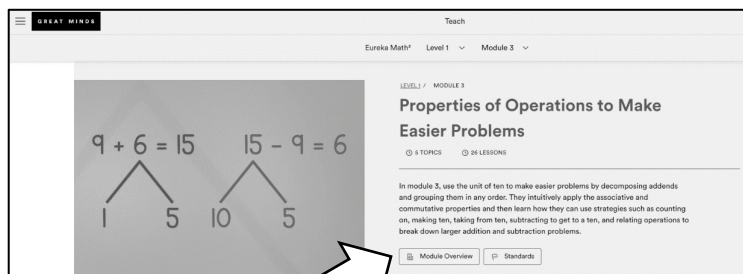
Intentional integration of discourse, collaboration, instructional routines, and digital elements

## Introduction to the Digital Platform

**Directions:** Discover the ways in which the structure and format of the *Teach* book and the digital platform are similar and different by using the following steps. After completing these steps, answer the reflection question at the bottom of the page.

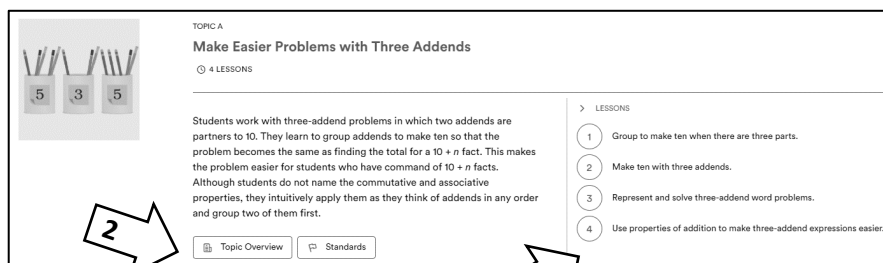
1. **On the digital platform, navigate to module 1 for your grade level. Click on the Module Overview button and explore.**

How is this content the same as you saw it in print? How is it different?



2. **Click the Topic Overview button and explore.**

How is this content the same as you saw it in print? How is it different?

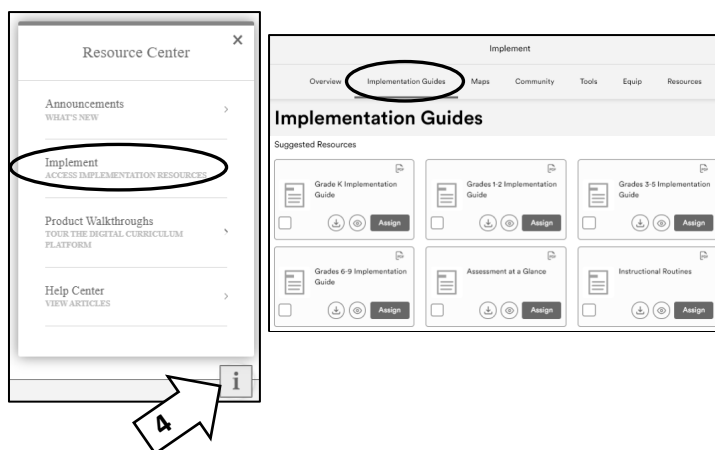


3. **Click the lesson you explored earlier in the session.**

How is this lesson the same as you saw it in print? How is it different?

4. **Click on the information button at the bottom right of the screen. In the pop-up window, click on Implement and then navigate to the Implementation Guide for your grade level.**

Read the Inside *Teach* portion.



**Reflection:** In what ways does the digital platform enhance the teachability of *Eureka Math*<sup>2</sup>? How do you envision using the digital platform to support your instruction?

## Grade 3 Module 1 Lesson 5

### Classwork

EUREKA MATH<sup>2</sup>

3 • M1 • TA • Lesson 5



5

Name \_\_\_\_\_

Use the Read–Draw–Write process to solve the problem.

1. A roller coaster has 10 cars.

There are 3 people in each car.

How many people are on the roller coaster?

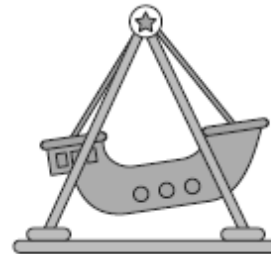


Use the Read–Draw–Write process to solve the problem.

2. The swinging ship ride has 9 rows of seats.

Each row has 5 seats.

How many seats are on the swinging ship ride?



## Talking Tool

### Share Your Thinking



I know . . . .  
I did it this way because . . . .  
The answer is \_\_\_\_\_ because . . . .  
My drawing shows . . . .

### Agree or Disagree



I agree because . . . .  
That is true because . . . .  
I disagree because . . . .  
That is not true because . . . .  
Do you agree or disagree with \_\_\_\_\_? Why?

### Ask for Reasoning



Why did you . . . ?  
Can you explain . . . ?  
What can we do first?  
How is \_\_\_\_\_ related to \_\_\_\_\_?

### Say It Again

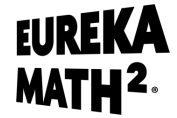


I heard you say . . . .  
\_\_\_\_\_ said . . . .  
Another way to say that is . . . .  
What does that mean?



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### Engagement Strategies

Lessons intentionally include a variety of strategies that promote active, and often physical, participation from all students. You'll find them embedded in all four lesson components: Fluency, Launch, Learn, and Land. Here are some examples of engagement strategies.

- Card Sorts
- Choral response
- Count by activities
- Counting Collections
- Gallery walks
- Games
- Show me activities
- Whiteboard Exchange

### Discourse Structures

Lessons intentionally include a variety of structures that engage all learners in student-to-student discourse. You'll find these embedded in the lesson components, primarily in Launch, Learn, and Land. Here are some examples of discourse structures.

- Notice and wonder
- Partner work
- Share, Compare, and Connect
- Talking Tool
- Think–pair–share
- Turn and talk

# Participant Handout

Launch: Bringing *Eureka Math*<sup>2</sup> to Life, K–5

## Which One Doesn't Belong?

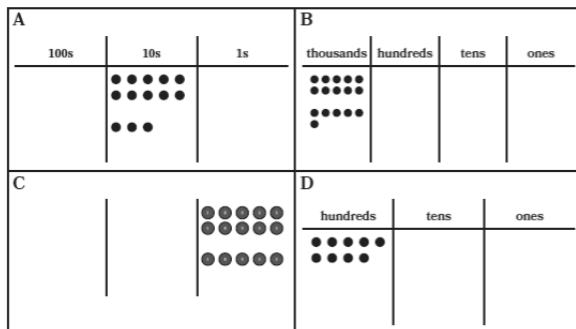
EUREKA MATH<sup>2</sup>

4 • M1 • TB • Lesson 5

### Launch 5

Students examine charts and discuss composing place value units.

Introduce the Which One Doesn't Belong? routine. Display the picture of the four charts.



Invite students to study the picture of the charts.

Give students 1 minute to find a category in which three of the items belong, but a fourth item does not.

When time is up, invite students to explain their chosen categories and to defend why one item does not fit.

Highlight responses that emphasize reasoning about place value units, about composing units, and about place value representations.

Ask questions that invite students to use precise language, to make connections, and to ask questions of their own.

#### Language Support

The terms *rename*, *bundle*, and *exchange* are familiar terms from previous grades. These terms are used to describe the composition and decomposition of one unit to another.

Although the terms can be used flexibly and often interchangeably, *rename* is usually used to indicate that a number is being described in different units. The terms *unbundle* and *bundle* help students think about what happens when a larger unit is exchanged for smaller units (i.e., are unbundled) or smaller units are exchanged for a larger unit (i.e., are bundled). *Exchange* tends to be used when students use concrete place value disks and physically exchange 1 of a larger unit for 10 of a smaller unit or 10 of a smaller unit for 1 of a larger unit. *Exchange* is also used as an auditory cue to remind students of the removal and placement of the units.

Consider supporting the terms *rename* and *bundle* by writing labeled examples of each as the terms come up in the lesson.

Sample questions:

#### Which one doesn't belong?

Chart A does not belong because the units are written with numbers instead of words.

Chart C does not belong because the rest of the charts are labeled with the units and that one isn't. The disks are labeled with 1.

Chart B does not belong because it has thousands and the rest of the charts only go to hundreds.

Chart D does not belong because there are fewer than 10 hundreds and the rest of the charts have more than 10 of a unit.

#### How many more hundreds does chart D need to rename to the next largest unit? How do you know?

1 more because that would be 10 hundreds, which could be renamed as 1 thousand.

#### What larger unit can be composed with 10 ones? 10 tens?

1 ten

1 hundred

#### How can the ones in chart C be renamed as tens and ones?

They can be renamed as 1 ten 5 ones.

#### How can the tens in chart A be renamed as hundreds and tens?

They can be renamed as 1 hundred 3 tens.

Invite students to turn and talk about how they think the thousands in chart B can be renamed.

Transition to the next segment by framing the work.

Today, we will count by using our place value understanding to find the amount of money in a collection when the total amount is greater than 1 thousand and then record the ways that we organize and then count the money.

#### Teacher Note

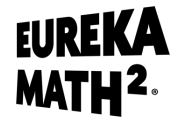
Consider supporting students with renaming by using yourself as an analogy.

Consider telling a series such as, "My name is Carla Diaz. My students call me Miss Diaz. My friends call me Carla. All of these names represent me, but a different version of my name is used at different times, depending on the situation."

Another example is that 13 tens can be renamed as 1 hundred 3 tens or 130 ones, depending on the situation, but all three represent the same amount.

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### Instructional Routines

The Launch, Learn, and Land lesson components intentionally include routines that

- promote student engagement in the Standards for Mathematical Practice;
- promote student-to-student dialogue and integrate reading, writing, and listening;
- align to Social Emotional Learning (SEL) core competencies; and
- align to Stanford Language Design Principles.

Although lessons embed many routines, the following routines consistently appear by name within lessons across grade levels.\* This helps students recognize them and develop ownership over the routines.

|                                    |  |
|------------------------------------|--|
| <b>Which One Doesn't Belong?</b>   | Promotes metacognition and mathematical discourse as students use precise language to compare different examples               |
| <b>Math Chat</b>                   | Creates open-ended space for sharing mental math strategies and developing number sense, flexibility, efficiency, and accuracy |
| <b>Five Framing Questions</b>      | Supports students in analyzing a work sample or solution strategy by guiding them through stages of discovery                  |
| <b>Numbered Heads</b>              | Helps groups build consensus and holds each student accountable for the material   |
| <b>Co-construction</b>             | Provides structure for contextualizing and decontextualizing problems, which helps students build abstract reasoning           |
| <b>Take a Stand</b>                | Supports students in making arguments and critiquing the reasoning of others   |
| <b>Critique a Flawed Response</b>  | Promotes effective communication techniques for critiquing others' work, correcting errors, and clarifying meaning             |
| <b>Always Sometimes Never</b>      | Promotes sense-making and mathematical discussion as students support a claim with examples and nonexamples                    |
| <b>Stronger, Clearer Each Time</b> | Provides a structured, interactive opportunity for students to revise and refine their written language through rehearsal      |

\* Which One Doesn't Belong? is introduced in prekindergarten. Two more routines are introduced in kindergarten: Math Chat and Five Framing Questions. Four are introduced in grade 1: Numbered Heads, Co-construction, Take a Stand, and Critique a Flawed Response. Two are introduced in grade 2: Always Sometimes Never and Stronger, Clearer Each Time. Once introduced, the routines are used throughout subsequent grades.

### Fluency Practice in *Eureka Math*<sup>2</sup>

Developing procedural fluency—the ability to use mathematical procedures flexibly, accurately, efficiently, and appropriately—is critical for students’ ability to transfer their understanding to increasingly complex mathematics concepts. Without fluency, students devote extra time and energy to computation during the problem-solving process, which becomes a barrier to making connections and seeing relevant relationships.

To support this development, *Eureka Math*<sup>2</sup>® includes fluency activities that provide distributed practice with previously learned material. It is designed to prepare students for new learning by activating prior knowledge and bridging small learning gaps.

Fluency activities—counting exercises, Whiteboard Exchanges, choral responses, and Sprints—were designed with a progression from simple to complex in mind. Often these fluency activities begin with more familiar numbers, units, and problems, and then progress strategically to provide students access to making connections and recognizing patterns between each progression. Many fluency activities provide a sample dialogue to illustrate the intent of the activity by using an initial number or problem.

#### Routines

Fluency routines help solidify and build students’ ability to use mathematical procedures flexibly, accurately, efficiently, and appropriately. Students become familiar with Fluency routines because of their consistent use across modules and grade levels, allowing for efficient teaching and learning. Fluency routines promote engagement, require participation from every student, and develop automaticity with counting and calculating. Each Fluency features a suggested routine. Teacher Notes are provided at the first occurrence of each routine that has a high frequency within the curriculum.

#### Teacher Note

Choose signals that you are comfortable with, such as thumbs-up and thumbs-down or two fingers pointing up and down. Show your signal and gesture up or down with each count. The goal is to be clear and crisp so that students count in unison. Avoid saying the numbers with the class; instead, listen for errors and hesitations.

Counting Exercise: Grade 2

#### Teacher Note

Establish a signal (e.g., show me your whiteboards) to introduce a procedure for showing whiteboard exchange responses.

Practice with basic computations such as the following until students are accustomed to the procedure:

- What is  $10 + 8$ ?
- What is  $500 + 18$ ?

Establish a procedure for providing feedback on whiteboard exchanges. Consider circulating and giving hand signals—thumbs-up or try again.

Whiteboard Exchange: Grade 5

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### Counting Exercises

During a counting exercise, students practice orally counting up and down with different units (e.g., frogs, ones, tens, centimeters, liters, grams, sevens, fourths, hundredths, square units, and even mixed units like tens and ones, meters and centimeters, hours and minutes, or ones and thirds). The teacher uses a clear and crisp hand gesture signal (e.g., thumbs-up or thumbs-down, or pointing a finger up or down) to indicate whether students should count up or down by the given unit. The pace of the activity should be dictated by students' comfort level with counting by the given unit and can be slowed down during more challenging moments in the count, like when a new unit is composed during a count (e.g., counting by 3s and crossing a ten when going up from 18 to 21, or when counting by sixths and a one is composed when going from  $\frac{5}{6}$  to 1).

















**Students visualize a number line while counting aloud to build fluency counting within 1,000.**

Invite students to participate in Happy Counting.

**When I give this signal, count up. (*Demonstrate.*) When I give this signal, count down. (*Demonstrate.*)**

**Let's count by tens. The first number you say is 80. Ready?**

Signal up or down accordingly for each count.

|  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80   | 90   | 100  | 90   | 100  | 110  | 100  | 110  | 100  | 90   | 100  | 110   | 120  | 130  | 140  | 150  |

Continue counting by tens within 150. Change directions occasionally, emphasizing crossing over 100 and where students hesitate or count inaccurately.

Count by 10s: Grade 2

### Whiteboard Exchanges

During Whiteboard Exchanges, students use a dry-erase marker and a whiteboard to solve a given problem or a step in the problem that generally requires some work to be shown. When students have finished working, the teacher uses a signal or prompt (e.g., show your whiteboard) to have all students reveal their work simultaneously. Immediate feedback from the teacher is given (e.g., thumbs-up, “yes,” “try again,” or “check the digit in the tens place”), and then after prompting from the teacher, students either erase their work to do another similar problem or move on to the next step in the problem.

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**Students add within 1,000 to prepare for adding multi-digit whole numbers by using the standard algorithm in topic D.**

Display  $314 + 263 = \underline{\quad}$ .

**Complete the equation.**

Give students time to work. When most students are ready, signal for students to show their whiteboards. Provide immediate and specific feedback. If students need to revise, briefly return to validate their corrections.

$$314 + 263 = \underline{577}$$

Display the answer.

Repeat the process with the following sequence:

|                               |                               |                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| $476 + 356 = \underline{832}$ | $473 + 329 = \underline{802}$ | $127 + 399 = \underline{526}$ | $298 + 524 = \underline{822}$ | $609 + 293 = \underline{902}$ |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|

Add within 1,000: Grade 4

### Choral Response

During choral response, the teacher presents an image (e.g., a scale showing the weight of an item, a number bond with a missing part, a tape diagram with an unknown total) or a problem that can be done with mental math. Then the teacher prompts students with a question (e.g., How many tens are in the number?, What is the missing part?, What is 361 rounded to the nearest ten?). The teacher provides wait time for students to think, and then when most or all hands are raised, the teacher signals all students to respond in unison.

**Students name the number of the missing step to build fluency with relating number to length.**

Gather students and show the number stairs 6 to 10 by using Unifix Cubes, or display the number stair picture.

After asking each question, wait until most students raise their hands, and then signal for students to respond.

**Raise your hand when you know the answer to each question. Wait for my signal to say the answer.**

**Look at the number stairs. How many are in the first stick? (Point to the 6-stick.)**

6

**How many are in the last stick? (Point to the 10-stick.)**

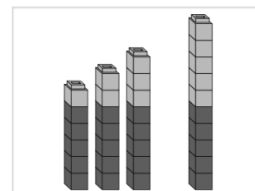
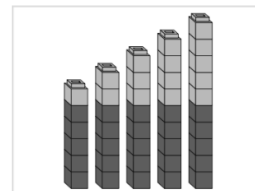
10

**Let's play a game. Close your eyes! (Take the 9-stick and place it behind your back.)**

**Open your eyes. There's a step missing! Raise your hand when you know which stick is missing.**

The 9-stick

Repeat the process a few more times, varying the missing step.



Which Step is Missing?: Kindergarten

# Participant Handout

Launch: Bringing *Eureka Math*<sup>2</sup> to Life, K–5



## Sprints

Sprints are designed to be fun experiences that intentionally build energy and excitement in students. Each Sprint routine includes two sets of closely related problems: Sprint A and Sprint B. First, Sprint A is distributed to students, and they are given 60 seconds to complete as many of the problems as they can. Students are not expected to be able to complete all the problems in the time given. Instead, students are encouraged to do as many as they can, their personal best. After 60 seconds, the teacher quickly reads aloud the correct answers as students either shout “Yes!” if they got it correct or circle it if they got it incorrect. Students then record the number they got correct at the top of the Sprint. Their goal then is to improve on Sprint B, even if only by one more. Before distributing Sprint B, students are often given time to fix any incorrect answers, look for and discuss patterns they see in Sprint A, and/or complete some of the problems they didn’t get to in Sprint A. Each Sprint is accompanied by a Teacher Note that provides a suggestion on how to get students out of their seats for two short counting activities that include some sort of stretch or physical movement (e.g., counting by 10s from 180 to 280 while bending the knees on each count). Feeling invigorated, students return to their seats and are given 60 seconds to complete as many problems on Sprint B as possible, with the goal of improving on the number they got correct on Sprint A. After Sprint B, the class repeats the process for identifying correct answers, and student effort is recognized and celebrated.

| <b>A</b>                              |  | Number Correct: _____                 |  |
|---------------------------------------|--|---------------------------------------|--|
| Complete the equations.               |  |                                       |  |
| 1. $1 \times 3 = \underline{\quad}$   |  | 23. $3 \times \underline{\quad} = 9$  |  |
| 2. $2 \times 3 = \underline{\quad}$   |  | 24. $3 \times \underline{\quad} = 15$ |  |
| 3. $3 \times 3 = \underline{\quad}$   |  | 25. $9 \div 3 = \underline{\quad}$    |  |
| 4. $3 \div 3 = \underline{\quad}$     |  | 26. $15 \div 3 = \underline{\quad}$   |  |
| 5. $6 \div 3 = \underline{\quad}$     |  | 27. $3 \times \underline{\quad} = 21$ |  |
| 6. $9 \div 3 = \underline{\quad}$     |  | 28. $3 \times \underline{\quad} = 27$ |  |
| 7. $4 \times 3 = \underline{\quad}$   |  | 29. $21 \div 3 = \underline{\quad}$   |  |
| 8. $5 \times 3 = \underline{\quad}$   |  | 30. $27 \div 3 = \underline{\quad}$   |  |
| 9. $6 \times 3 = \underline{\quad}$   |  | 31. $3 \times \underline{\quad} = 3$  |  |
| 10. $12 \div 3 = \underline{\quad}$   |  | 32. $3 \times \underline{\quad} = 0$  |  |
| 11. $15 \div 3 = \underline{\quad}$   |  | 33. $3 \div 3 = \underline{\quad}$    |  |
| 12. $18 \div 3 = \underline{\quad}$   |  | 34. $9 \div 3 = \underline{\quad}$    |  |
| 13. $7 \times 3 = \underline{\quad}$  |  | 35. $3 \times \underline{\quad} = 6$  |  |
| 14. $8 \times 3 = \underline{\quad}$  |  | 36. $\underline{\quad} \times 3 = 12$ |  |
| 15. $9 \times 3 = \underline{\quad}$  |  | 37. $3 \times \underline{\quad} = 18$ |  |
| 16. $21 \div 3 = \underline{\quad}$   |  | 38. $\underline{\quad} \times 3 = 24$ |  |
| 17. $24 \div 3 = \underline{\quad}$   |  | 39. $3 \times \underline{\quad} = 30$ |  |
| 18. $27 \div 3 = \underline{\quad}$   |  | 40. $\underline{\quad} \div 3 = 2$    |  |
| 19. $10 \times 3 = \underline{\quad}$ |  | 41. $12 \div \underline{\quad} = 3$   |  |
| 20. $1 \times 3 = \underline{\quad}$  |  | 42. $\underline{\quad} \div 3 = 6$    |  |
| 21. $30 \div 3 = \underline{\quad}$   |  | 43. $24 \div \underline{\quad} = 3$   |  |
| 22. $3 \div 3 = \underline{\quad}$    |  | 44. $\underline{\quad} \div 3 = 10$   |  |

| <b>B</b>                              |  | Number Correct: _____                 |  |
|---------------------------------------|--|---------------------------------------|--|
| Complete the equations.               |  | Improvement: _____                    |  |
| 1. $1 \times 3 = \underline{\quad}$   |  | 23. $3 \times \underline{\quad} = 6$  |  |
| 2. $2 \times 3 = \underline{\quad}$   |  | 24. $3 \times \underline{\quad} = 12$ |  |
| 3. $3 \times 3 = \underline{\quad}$   |  | 25. $6 \div 3 = \underline{\quad}$    |  |
| 4. $3 \div 3 = \underline{\quad}$     |  | 26. $12 \div 3 = \underline{\quad}$   |  |
| 5. $6 \div 3 = \underline{\quad}$     |  | 27. $3 \times \underline{\quad} = 18$ |  |
| 6. $9 \div 3 = \underline{\quad}$     |  | 28. $3 \times \underline{\quad} = 24$ |  |
| 7. $3 \times 3 = \underline{\quad}$   |  | 29. $18 \div 3 = \underline{\quad}$   |  |
| 8. $4 \times 3 = \underline{\quad}$   |  | 30. $24 \div 3 = \underline{\quad}$   |  |
| 9. $5 \times 3 = \underline{\quad}$   |  | 31. $3 \times \underline{\quad} = 3$  |  |
| 10. $9 \div 3 = \underline{\quad}$    |  | 32. $3 \times \underline{\quad} = 0$  |  |
| 11. $12 \div 3 = \underline{\quad}$   |  | 33. $3 \div 3 = \underline{\quad}$    |  |
| 12. $15 \div 3 = \underline{\quad}$   |  | 34. $6 \div 3 = \underline{\quad}$    |  |
| 13. $6 \times 3 = \underline{\quad}$  |  | 35. $3 \times \underline{\quad} = 9$  |  |
| 14. $7 \times 3 = \underline{\quad}$  |  | 36. $\underline{\quad} \times 3 = 15$ |  |
| 15. $8 \times 3 = \underline{\quad}$  |  | 37. $3 \times \underline{\quad} = 21$ |  |
| 16. $18 \div 3 = \underline{\quad}$   |  | 38. $\underline{\quad} \times 3 = 27$ |  |
| 17. $21 \div 3 = \underline{\quad}$   |  | 39. $3 \times \underline{\quad} = 30$ |  |
| 18. $24 \div 3 = \underline{\quad}$   |  | 40. $\underline{\quad} \div 3 = 3$    |  |
| 19. $9 \times 3 = \underline{\quad}$  |  | 41. $15 \div \underline{\quad} = 3$   |  |
| 20. $10 \times 3 = \underline{\quad}$ |  | 42. $\underline{\quad} \div 3 = 7$    |  |
| 21. $27 \div 3 = \underline{\quad}$   |  | 43. $27 \div \underline{\quad} = 3$   |  |
| 22. $30 \div 3 = \underline{\quad}$   |  | 44. $\underline{\quad} \div 3 = 10$   |  |


Multiply and Divide by 3: Grade 3

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### Flexible Use

It is strongly recommended that fluency activities are a part of each day in school. However, some fluency activities can be used at other times of day or can be completed by students independently. Read the statement that describes the purpose of Fluency to help you determine whether your students will benefit most from engaging in the activity immediately before the lesson or at a different time. Notice how this purpose statement from grade 4 module 1 topic C describes how the fluency activity prepares students for success in the subsequent topic.



**Whiteboard Exchange: Add within 1,000**

Students add within 1,000 to prepare for adding multi-digit whole numbers by using the standard algorithm in topic D.

Display  $314 + 263 = \underline{\quad}$ .

**Complete the equation.**

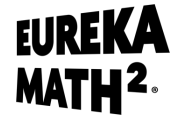
Give students time to work. When most students are ready, signal for students to show their whiteboards. Provide immediate and specific feedback. If students need to revise, briefly return to validate their corrections.

Display the answer.

$314 + 263 = \underline{577}$

## Participant Handout

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# Explore Your Module 1

### Directions:

- Select one of the following lessons from your grade level. Be ready to share your discoveries during a small-group discussion.
  - K: lesson 5, 6, or 14
  - 1: lesson 13, 16, or 25
  - 2: lesson 9, 17, or 23
  - 3: lesson 1, 7, or 9
  - 4: lesson 5, 8, or 17
  - 5: lesson 1, 9, or 15
- Using your *Teach* book or the digital platform, make a list of the variety of learning supports you find. Look for the following:
  - Context videos and digital interactives
  - Engagement strategies
  - Discourse structures
  - Instructional routines
  - Fluency activities
- What do you notice? Why do you think the lessons are written to include these supports for learning? What is the role of instructional routines and engagement strategies in student learning?

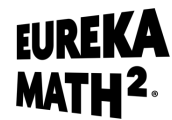
## Assessment Overview

| ASSESSMENT TYPE   | FREQUENCY     | LOCATION                        | NOTES  |
|---|---------------|---------------------------------|--|
| <b>Kindergarten</b>   |               |                                 |  |
| Observational Assessment Recording Sheet                      | 1 per module  | <i>Teach</i> ; digital platform | Anecdotal  |
| Module Assessment   | 1 per module  | <i>Teach</i> ; digital platform | Interview format   |
| <b>1–2</b>  |               |                                 |  |
| Observational Assessment Recording Sheet                      | 1 per module  | <i>Teach</i> ; digital platform |  |
| Exit Ticket   | 1 per lesson* | <i>Learn</i> ; digital platform | *Except the last lesson of the topic                     |
| Topic Ticket  | 1 per topic   | <i>Learn</i> ; digital platform | Replaces the Exit Ticket in the last lesson of the topic |
| Module Assessment   | 1 per module  | <i>Teach</i> ; digital platform |  |
| <i>Eureka Math</i> <sup>2</sup> Equip Pre-Module Assessment** | 4 per year    | Digital platform                | Print (PDF), digital, and interview formats              |
| Benchmark Assessment**  | 3 per year    | Digital platform                |  |
| <b>3–5</b>  |               |                                 |  |
| Exit Ticket   | 1 per lesson  | <i>Learn</i> ; digital platform |  |
| Topic Quiz  | 1 per topic   | Digital platform                | Print (PDF) and digital formats; 3 analog versions       |
| Module Assessment   | 1 per module  | Digital platform                | Print (PDF) and digital formats; 2 analog versions       |
| <i>Eureka Math</i> <sup>2</sup> Equip Pre-Module Assessment** | 4 per year    | Digital platform                | Print (PDF) and digital formats                          |
| Benchmark Assessment**  | 3 per year    | Digital platform                | Print (PDF) and digital formats                          |

\*\* Pre-Module Assessments and Benchmark Assessments are available in the premium assessment package.

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# Explore Your Module

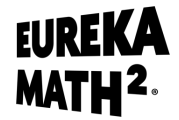
K–2

**Directions:** To gain confidence navigating the *Teach* book and the digital platform, explore these resources.

|  | <i>Teach</i> Book        | Digital Platform         |
|--|--------------------------|--------------------------|
| I can find these Module Resources:       |                          |                          |
| Module Overview                          | <input type="checkbox"/> | <input type="checkbox"/> |
| Contents                                 | <input type="checkbox"/> | <input type="checkbox"/> |
| Why                                      | <input type="checkbox"/> | <input type="checkbox"/> |
| Achievement Descriptors                  | <input type="checkbox"/> | <input type="checkbox"/> |
| Proficiency Indicators                   | <input type="checkbox"/> | <input type="checkbox"/> |
| Terminology                              | <input type="checkbox"/> | <input type="checkbox"/> |
| Math Past                                | <input type="checkbox"/> | <input type="checkbox"/> |
| Materials                                | <input type="checkbox"/> | <input type="checkbox"/> |
| Observational Assessment Recording Sheet | <input type="checkbox"/> | <input type="checkbox"/> |
| Module Assessment                        | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample Solutions for module assessments  | <input type="checkbox"/> | <input type="checkbox"/> |
| Scoring Guide for module assessments     |                          | <input type="checkbox"/> |
| I can find these Topic Resources:        |                          |                          |
| Topic Overview                           | <input type="checkbox"/> | <input type="checkbox"/> |
| Progression of Lessons                   | <input type="checkbox"/> | <input type="checkbox"/> |
| I can find these Lesson Resources:       |                          |                          |
| Lesson Overview                          | <input type="checkbox"/> | <input type="checkbox"/> |
| lesson components                        | <input type="checkbox"/> | <input type="checkbox"/> |
| presentation slides                      |                          | <input type="checkbox"/> |
| student pages                            |                          | <input type="checkbox"/> |
| Sample Solutions for student pages       |                          | <input type="checkbox"/> |
| Topic Ticket (1–2)                       |                          | <input type="checkbox"/> |
| Topic Ticket Scoring Guide (1–2)         |                          | <input type="checkbox"/> |

## Participant Handout

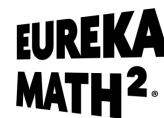
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|  |                          |  |
|--|--------------------------|--|
| I can interact with these digital lesson features:<br>Achievement Descriptors and Standards<br>notes and highlighting<br>presentation slides | <input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |
| I can find the Resource Center by using the information icon.  |                          | <input type="checkbox"/>   |
| I can find these resources from the Resource Center:<br>Implement<br>Product Walkthroughs<br>Help Center                                     |                          | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |
| I can access virtual manipulatives through the Implement space.  |                          | <input type="checkbox"/>   |
| I can toggle from the Teach space to Assign, Assess, and Analyze spaces.   |                          | <input type="checkbox"/>   |

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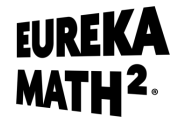
3–5

**Directions:** To gain confidence navigating the *Teach* book and the digital platform, explore these resources.

|   | <i>Teach</i> Book  | Digital Platform   |
|---|--|--|
| <p>I can find these Module Resources:</p> <ul style="list-style-type: none"> <li>Module Overview</li> <li>Contents</li> <li>Why</li> <li>Achievement Descriptors</li> <li>Proficiency Indicators</li> <li>Terminology</li> <li>Math Past</li> <li>Materials</li> <li>Module Assessments</li> <li>Sample Solutions for module assessments</li> <li>Scoring Guide for module assessments</li> </ul> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |
| <p>I can find these Topic Resources:</p> <ul style="list-style-type: none"> <li>Topic Overview</li> <li>Progression of Lessons</li> <li>Topic Quizzes</li> <li>Sample Solutions for topic quizzes</li> <li>Scoring Guide for topic quizzes</li> </ul>   | <input type="checkbox"/><br><input type="checkbox"/><br><br><br>   | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/>   |
| <p>I can find these Lesson Resources:</p> <ul style="list-style-type: none"> <li>Lesson Overview</li> <li>lesson components</li> <li>presentation slides</li> <li>student pages</li> <li>Sample Solutions for student pages</li> </ul>  | <input type="checkbox"/><br><input type="checkbox"/><br><br>   | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/>   |

## Participant Handout

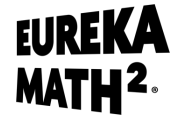
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|  |                          |  |
|--|--------------------------|--|
| I can interact with these digital lesson features:<br>Achievement Descriptors and Standards<br>notes and highlighting<br>presentation slides | <input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |
| I can find the Resource Center by using the information icon.  |                          | <input type="checkbox"/>   |
| I can find these resources from the Resource Center:<br>Implement<br>Product Walkthroughs<br>Help Center                                     |                          | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |
| I can access virtual manipulatives through the Implement space.  |                          | <input type="checkbox"/>   |
| I can toggle from the Teach space to Assign, Assess, and Analyze spaces.   |                          | <input type="checkbox"/>   |

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## Works Cited

CAST. *Universal Design for Learning Guidelines version 2.2*. Retrieved from <https://udlguidelines.cast.org>, 2018.

Great Minds. *Eureka Math*<sup>2</sup>. Washington, DC: Great Minds, 2021. <https://greatminds.org/math>.