

Access the Great Minds Digital Platform to review Eureka Math ${ }^{2}$ assessments, digital interactives, context videos, and more.


## Getting Started

This Getting Started Guide provides contextual information as you review Eureka Math2. ${ }^{\text {. }}$. Follow along as we explore the contents of the Teach, Learn, and Apply books. The guide also highlights some key components of the digital experience that are seamlessly integrated into Eureka Math².

## Exponentially More

Eureka Math ${ }^{\circledR}$ revolutionized math teaching in the United States. The curriculum has helped students understand the why behind the math, not just the how. It has become the most widely used K-5 math curriculum in the country-so why would we change it? Because we listened to feedback from our dedicated team of Eureka Math teachers throughout the country and studied the findings of current educational research. Armed with this knowledge, we decided to expand the accessibility and efficacy of our materials so that even more students can achieve greatness in math.

Eureka Math ${ }^{2}$ is exponentially more efficient. Exponentially more engaging. Exponentially more accessible. And this adds up to exponentially more knowledge and joy for students and teachers alike.


Teachability ${ }^{2}+$ Engagement $^{2}+$ Accessibility $^{2}=\int 0 y^{2}$

## Thinking and Talking About Math

The teacher-writers who crafted Eureka Math² realize the value of student discourse. Starting in kindergarten, Eureka Math ${ }^{2}$ students engage with the teacher and with one another to make their thinking visible. Students work in pairs and in groups as they engage in a variety of instructional routines and participate in whole class discussions to explore mathematical ideas. The Talking Tool, detailed on the inside cover of every Learn book, provides sentence frames and sentence starters to help guide student discourse.

Thinking and talking about math helps students develop a deeper understanding of the topics they learn. These activities are key factors in creating an equitable classroom cultureand in helping students find the joy in mathematics.

## How Students Build Knowledge

Eureka Math ${ }^{2}$ is organized into three coherent stories that build from year to year: A Story of Units ${ }^{\circledR}$ for Grade Levels K-5, A Story of Ratios ${ }^{\circledR}$ for Grade Levels 6-8, and A Story of Functions ${ }^{\circledR}$ for Grade Levels 9-12.

Each grade level is organized into six modules. Within each module, related lessons are organized into topics.

A close look at the module map reveals that the major work of the grade level is delivered earlier in the school year. This allows students to have ample opportunities to establish strong foundational knowledge. Eureka Math² reinforces this knowledge later in the year by connecting supporting content to major grade-level work and providing students with realworld context.


## Implement with Fidelity and Confidence

The same team of teacher-writers who crafted Eureka Math ${ }^{2}$ also developed an Implementation Guide to help educators bring the curriculum into their classrooms. The guide provides a detailed map of the resources built into the curriculum and offers advice on how to prepare to teach each module. Access the full Grade Level K Implementation Guide.

Below we'll highlight some of the information covered in the Implementation Guide to help you explore Eureka Math ${ }^{2}$ Level K Module 1.

## An Intentional and Meaningful Integration of Digital Learning

The Eureka Math ${ }^{2}$ writers strategically integrated digital components with $\mathrm{K}-5$ lessons so that technology enhances instruction without the need for individual student devices. Eureka Math ${ }^{2}$ Equip $^{\text {TM }}$, a companion product to Eureka Math ${ }^{2}$, is a digital diagnostic tool that offers a Pre-Module Assessment for every student. It identifies learning gaps and provides teachers with content tailored to address those gaps so that all students can access gradelevel content. The curriculum's digital platform includes teacher facilitation slides that display lesson visuals such as mathematical representations, images, videos, or digital interactives. Students also participate in a teacher-led class demo with interactive tools on the Great Minds ${ }^{\circledR}$ Digital Platform to visualize various mathematical models.

When students have their own devices, they can access the Learn book content and complete assignments digitally.

Every module includes at least one context video that shows an application of the module's math in real-life scenarios. Each video in our Eureka Math ${ }^{2}$ digital experience has been crafted with special care to ensure representation of students from different backgrounds and abilities. These videos do not include spoken words because we want to make them accessible to multilingual learners and striving readers and keep the focus on the math story instead of the dialogue. You can access the video for this lesson on the webpage where you accessed this guide.
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## Bringing Fine Art into Math

Among all math curricula, Eureka Math ${ }^{2}$ is unique in its integration of fine art. The cover of each module features an impressive work of fine art that is visually or conceptually connected to the math. Level K Module 1 features the painting Composition with Large Red Plane, Yellow, Black, Gray and Blue by Piet Mondrian, and a note on the inside cover helps students understand how the artwork is connected to the math they will learn.


## A Map to the Learning

Every Teach book begins with an Overview. In Level K Module 1, the Overview begins on page 2. The Overview notes any previous knowledge students use and build upon in the module, summarizes the student learning taking place on each topic in the module, and shows where in the curriculum students will next access the module's learning to build new layers of understanding and more complex knowledge.

Following the Overview is the Why section. The Why section gives insight into the decisions made during the writing of the module, helping you understand the underlying structure of the module, the flow of the content, and the coherence of the different parts of the curriculum.

## What Does Understanding Look Like?

Beginning on page 10, the Teach book highlights the Achievement Descriptors addressed in the module. Achievement Descriptors are clear, concise, standards-aligned descriptions that detail what students should know and be able to do based on the instruction. The first page of each lesson identifies the Achievement Descriptors aligned with that lesson. Proficiency Indicators for each Achievement Descriptor support teachers with interpreting student work in the module. The Proficiency Indicators begin on page 400 in the Level K Module 1 Teach book.

## History of the Math

Math Past is another way that Eureka Math ${ }^{2}$ helps students build knowledge-by telling the history of some of the big ideas that shape the mathematics in the module. Math Past frames mathematics as a human endeavor by telling the story of the discipline through artifacts, discoveries, and other contributions from cultures around the world. Math Past provides material that can inform your teaching and offers lesson-specific ideas about how to engage students in the history of mathematics. The Math Past summary for Level K Module 1 appears on page 408.


## Dive into a Topic

It's time to dive into a topic to better understand the Eureka Math² learning design. On page 70 in Level K Module 1, we begin Topic B: Answer How Many Questions with Up to 5 Objects. Every topic begins with an overview that summarizes the knowledge students will build as they engage with the upcoming content. In the Topic B overview, the teacher can see that students will build on previous work with number core concepts by practicing using the number word list, one-to-one correspondence, cardinality, and written numerals together in a variety of authentic contexts. This learning strengthens the idea that there is more than one way to find the cardinality of, or number of objects in, a set. It also confirms that the number of objects in a set is the same regardless of their arrangement. The teacher can also see how this learning will continue in the topic.

Each topic also includes a Progression of Lessons list on page 72. This list shows sample content from each lesson along with a student-friendly statement about the major learning.

## Lesson Structure and Support

Every Grade Level K-5 Eureka Math ${ }^{2}$ lesson is organized into four sections, providing the teacher with a clear lesson plan for the day's learning.

- Fluency opens each lesson and provides distributed practice with previously learned material. This practice prepares students for new learning by activating prior knowledge and bridging small learning gaps.
- Launch creates an accessible entry point to the day's learning with activities that build context and create productive struggle, which helps build new knowledge.
- Learn presents new math concepts related to the lesson objective, usually through a series of instructional segments.
- Land provides time for teachers to facilitate a brief closing discussion and for students to complete the Exit Ticket.

Throughout the lesson, margin notes provide information about facilitation, differentiation, and coherence. The curriculum has six types of margin notes: Teacher Notes, Universal Design for Learning, Language Support, Differentiation, Promoting the Standards for Mathematical Practice, and Math Past.

## Dive into a Lesson

The lesson overview on page 104 helps teachers prepare to teach Lesson 9.

- The Lesson at a Glance is a snapshot of the lesson framed through what students should know, understand, and do while engaging with the lesson.
- The Key Question helps focus instruction and classroom discourse.
- The Achievement Descriptors appear again, this time mapping what students should know and be able to do based on the instruction of the specific lesson to the standards covered.

Finally, page 105 lays out the learning agenda as well as the materials list and lesson preparation notes. These are all shared up front to help teachers feel organized and ready for the lesson from the start.

During the Lesson 9 Fluency exercise on page 106, the teacher provides student pairs with Match cards. Student partners work through the fluency activity, matching numeral cards to set cards. Through this activity, students build fluency with one-to-one correspondence and an understanding of cardinality so that the last number said represents the number of objects in the group. This activity is introduced in Lesson 7 and recurs in the Fluency segment in Lesson 24.

In Launch, students practice conservation as they analyze images of a set of students arranged in various configurations. They count the number of students in each configuration to determine that the total stayed the same.

In Learn, the teacher displays the 1-5 Hide Zero demonstration cards with a set of 3 Unifix cubes from your classroom. The students identify how many cubes there are, and then the teacher rearranges the set of cubes into a new configuration. Students consider if they need to recount to find the total.

After working through several sets of 4 and 5 cubes, students practice the routine of turning to their Learn books to work on a Problem Set. Before students begin this work, be sure to note the guidance provided in the teacher margin note on page 109.

Another margin note on page 109, Observational Assessment, provides information to guide formative assessment as students work.

## Teacher Note

Do not exceed 5 cubes. With small quantities, some students will subitize, while others may touch and count.

If a student subitizes, do not insist that they touch and count. They may think they made a mistake and will not learn to trust their ability to "just see" the number. Subitizing is important when it is time to learn to count on.

## Teacher Note

This Problem Set is designed for systematic modeling (see lesson 8 for more detail). Continue to use systematic modeling for Problem Sets throughout module 1 until students become comfortable working with pencil and paper.

## The Student Experience:

## Learn

On page 29 of the Learn book, students begin the Problem Set for Lesson 9. Notice the gears icon in the top corner of the page. This icon is used to indicate a Problem Set section. Other icons that may appear in lessons include a magnifying glass which indicates a lesson page that students use during the guided or directed portion of the lesson.

Let's look at readability. You will notice that the student materials are intentionally designed to be readable by young students while maintaining the rigor that you've come to expect from Great Minds curricula. We have reduced wordiness-eliminating unnecessary wording entirelyand we have been intentional in our language choices and sentence length. The Grade Level K-2 Learn books use visuals paired with words that may still be beyond a student's decoding ability, and teacher-read directions appear in a smaller font.


After students work independently on their Problem Set, the class comes back together for the Land portion of the lesson. For Lesson 9, this section begins on page 111 of the Teach book. In this portion of the lesson, the teacher facilitates a discussion by using suggested questions related to the lesson's objectives and guides students to synthesize the day's learning.

## Continued Practice at Home

Also included in Learn for Level K is Family Math, a letter to families that describes the major concepts in the current topic. The letter uses words and phrases that students should recognize from the class lessons. It also includes visual supports students can use to explain concepts and strategies to their family. The at-home activities provide ideas for families to practice the module's math concepts with their students.


## Assessment with Eureka Math ${ }^{2}$

The assessment system for Grade Level $K$ helps teachers understand student learning by generating data from different perspectives. The system includes two components.

- Every module in Kindergarten has an Observational Assessment Recording Sheet that includes short checklists that summarize the module's ADs and Proficiency Indicators. On this recording sheet teachers note student performance that demonstrates students are building the intended knowledge and skills during lessons using data from the observational assessment prompts and from written work.
- Module Assessments consist of three to five interview-style items that assess proficiency with the major concepts, skills, and applications taught in the module. Module Assessments cover the most important content, but they may not assess all the strategies and standards taught in the module. Teachers give this assessment when the notes they've taken in the Observational Assessment Recording Sheet suggest that a student has shown inconsistent proficiency over the course of a module. Module Assessments provide suggested language for the interview-style items.

All Grade Level K assessment resources appear in the Resources section beginning on page 390 of the Teach book.

Click to review the Eureka Math² assessments on the Great Minds Digital Platform.


## Raising the Bar to the Second Power

In the world of math curricula, Eureka Math² stands alone. Our curriculum invites student discourse, provides accessibility, and advances equity. Its combination of digital and print resources helps all students build a strong foundation of mathematical knowledge that they will build upon, module after module and year after year.


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