

every child is capable of greatness

EUREKA MATH².



ACCESSING CURRICULUM & SUPPORT RESOURCES

How to use your Great Minds[®] account to access the *Eureka Math*^{2®} curriculum and suite of support resources.

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Logging in to Your Great Minds Account

Instructional Materials Walk-Through

A Eureka Math² teacher demo account has been created for your review and can be accessed using the following login credentials:

Account Email Address: teacherdemo17@greatmindsdemo.org

Account Password: GMTrial2023! (case sensitive)

If you have any questions, please contact Lucy Long at lucy.long@greatminds.org

Step 1

Visit digital.greatminds.org and select the "Log in with email" option.

Step 2

Enter the Great Minds® account credentials referenced above.



Step-by-step instructions for navigating the Great Minds[®] Digital Platform can be found at: digitalsupport.greatminds.org/s/article/Great-Minds-Digital-Platform-Navigation.

Accessing Instructional Materials in the Great Minds Digital Platform

Eureka Math² seamlessly integrates technology into lessons to support teachability and foster student engagement. Through the Great Minds Digital Platform, teachers can access facilitation slides, Teach book content, and assessments while students can interact with digital manipulatives, digital interactives, and more. Whether projecting on a whiteboard or working on student devices, the Great Minds Digital Platform brings math to life in tangible ways for every student.

There's exponentially more to Eureka Math² than can fit on the pages of a book. That's why we organized the Great Minds Digital Platform into four key spaces: Teach, Assign, Assess, and Analyze.

Teach Explore and Study the Curriculum

The Curriculum, Level, and Module Overview pages in Teach allow you to explore the structure of Eureka Math² and access each component of the curriculum.

Curriculum Overview

Preview the K-5 story using the Curriculum Overview page.



Level Overview

Access all six modules from the Level Overview, including Eureka Math² Equip[™] Pre-module assessment resources.



You will also find access to implementation resources, including Implementation Guides, curriculum maps, family math night materials, and other support documents.

Teach Explore and Study the Curriculum (continued)

Teach Plan and Faciliate Lessons

Module Overview

Access the Module Overview page to read about the mathematical progression, view the Module standard and Achievement Descriptors, or explore the Module Assessments.



Topic Overview

By scrolling down, you will find the Topic Overviews that include the Topic Progression chart, standards, Topic Quizzes (3-5 only), and Family Math pages.



Topic Overview

🏳 Standards

🖾 🛛 Quizzes 🗸

Lesson Planning



From the Lesson Planning page, you can do the following:

- Read the Lesson Overview, Lesson Vignette, and Teacher Notes.
- Access the lesson standard, Achievement Descriptors and Proficiency Indicators, and • key questions by clicking on the icon menu on the left side of the screen.
- Preview the agenda and materials information. •
- Annotate the lesson by highlighting text or writing notes.
- Preview and interact with the presentation slides, including any context videos and/or ٠ digital interactives. Slides may be presented to the class and assigned to students.

Presentation Slides

GREAT	G3 M1 TA C Lesson 5: Represent and solve multiplication word problems by u Overview Plancy Launch Learn Land		III US
	Equal Groups Word Problem		
	Read-Draw-Write (RDW)	*	
	Read the problem all the way through. Then reread a chunk at a time. As you reread, ask yourself, "Can I draw something?" then "What can I draw?"		
- p	Draw to represent the problem as you reread. Add to or revise your drawing as you uncover new information or discover what is unknown. As you draw, label what is known and what is unknown.	TIS Up to be for the constant from the	3
04	When you finish rereading and drawing, ask yourself, "What does my drowing show me?" Let your drawing help you find a way to solve.	C to fail the last standard for galaxy C to fail the last standard for galaxy	Π
	Write number sentences or equations to represent your thinking.	•	
	Solve. Then use your solution to write a statement that answers the original question.		
	Direct students to problem 1, and chorally read the problem with the class. Have students work independently to use the Read–Draw–Write process to solve the problem. Provide materials such as interlocking clustes for student use. Ricourage students to safe-adset their tools and strategies.	• *	i

Preview and interact with the presentation slides, including any context videos and/or digital interactives. Slides may be presented to the class and assigned to students.

The Lesson Planning page provides all the information and resources you need to plan and teach the lesson.

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Student Resources



View, download, and assign lesson student pages including classwork, problem sets, exit tickets, assessments, and practice.

Assigning Student Work

The Assign space gives educators powerful tools for distributing assignments and analyzing student work. Here you can do the following:

- Assign and manage all class assignments.
- Create assignments by using any artifact in the Eureka Math² resource library. •
- View, monitor, and score active assignments.

GREAT MINDS	Assign	
C Teach	Active/Past Upcoming All Options All Options All Options All Options	⊚ Creste New ∽
🖉 Assign		
Assess	Active/Past	
III. Analyze		
Manage		
	10 Lesson 5 Classwork CLASS 1 CLASS 1 FEB O I NetStarted 0 In Progress 0 Completed View	
	17 Lesson 5 Practice CLASS 1 View : FEB O. Min Standard O. Dis Researce O. Completed View :	
	FEB O 1 Not Started O 0 In Progress O Completed	
	21 Lesson 5 Practice Partner Work	
	21 CLSSON 5 Practice Partner Work FEB CLAS1 0 1 Not Started 0 0 In Progress	
	01 Level 3, Module 1, Topic A Quiz 1 Launch :	
	15 Level 3, Module 1, Module Assessment 1 Launch :	
	MAR CLASS 1	

Prepare to Teach with Eureka Math² Equip

To empower all students to successfully engage with grade-level math and to help you gain visibility into where your students are and where they need to go, we have included a powerful diagnostic assessment system known as Eureka Math² Equip.



From the level page or module page, select the *Eureka Math² Equip* banner to explore the resources:

- User Guide •
- Module at a Glance •
- Pre-module Assessment ٠
- Supporting Activities Teaching Guides ٠

Analyze View Assessment Reports

Assessing Student Work

Increase your visibility into student learning through our suite of digital assessments. The Assess space allows educators to easily view, manage, and extract reports on digital assessments.



Analyze Dashboard

The Analyze dashboard allows educators to view reports and insights for classes, assignments, and students. It provides an overview of completed assessments, while detailed reports offer insights into class performance on assessments, individual student performance, and performance against standards. You can view reports and insights for classes, assignments, and students in Analyze. When student assessment data is populated, the dashboard provides an overview of completed assessments.

Different reports offer different insights into class performance on assessments, individual student performance, and performance against standards:

• Single Assessment Report

Student Performance Report •

• Eureka Math² Equip **Assessment Report**

• Standards Report



- Lesson-embedded Exit Tickets,
- Topic Quizzes, •
- Pre-module Assessments. •
- Module Assessments, and ٠
- Benchmark Assessments. ٠

The assessment system in levels K-2 is adjusted for grade-level appropriateness and includes an Observational Assessment Recording Sheet. This system includes:

- Lesson-embedded Exit Tickets in grade levels 1 and 2,
- Topic Tickets in grade levels 1 and 2 (a Topic Ticket replaces the Exit Ticket in the last lesson of a topic), and
- Module Assessments in levels K-2. ٠

		According Sheet	٤.
Observ	vational Assessment Recording Sheet		1
Grade K Mod Counting	g and Cardinality	Student Name	
Achievement Descriptors		Dates and Details of Observations	
K.Mod1.AD1	Couns to 10.		
K.Mod1AD2	Write numbers from 0 to 10.		
K.Mod1AD3	Represents a group of objects with a written numeral 0-10.		
K.Mod1AD4	Say one number name with each object when counting up to 10 objects.		
K.Mod1AD5	Use the last number of a count to tell how many regardless of arrangement or order counted.		
K.Mod1AD6	Say how many without recounting when objects are rearranged.		
K.Mod1AD7	Recognize that each successive number is one more when counting within 10.		
K.Mod1AD8	Count to answer how many questions about as many as 10 things arranged in a line, a rectangular array, a circle, or a scattered configuration.		
K.Mod1AD9	Count out a given number of 1-10 objects from a larger group.		

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Student Learning | Navigating the Student Dashboard on the Great Minds Digital Platform

Whether interacting with digital content or reviewing assessment data and feedback, students can find everything they need for success on the student platform. Students in level 6-Algebra I also participate in interactive digital lessons designed to encourage exploration, discussion, and engagement. For these lessons, students use their own devices in flexible groupings. Digital lessons are part of the module's sequence of lessons and have objectives that advance key learning.

6

The Home dashboard serves as the landing page for students. From this screen, students can do the following:

Access, complete, and submit assignments ٠ and assessments.





• In Locker, students can review past assignments and assessments that have been completed.

Explore virtual manipulatives. •



Visit the Help Center article for a step-by-step navigation of the student dashboard: digitalsupport.greatminds.org/s/article/Student-Platform-Basic-Navigation.

Print Instructional Materials Walk-Through

Teach Explore and Study the Teacher Materials

The Teach books, also known as the Teacher Editions, are available as a six-volume set, one book for each module at each grade level. These full-color, spiral-bound books include an overview of the module and topic, lesson planning notes, and margin notes that provide information on Universal Design for Learning (UDL), differentiation, and other information to support classroom instruction. Also available in Spanish for levels K–5. Here are some unique features of the Teach book to consider.

The Module Overview explains the development of the mathematics in each topic of the module and highlights connections to work that occurs before and after the module, helping teachers understand the module's place in the overall development of learning in and across grade levels.

This section also includes a Why section that highlights and explains elements of the mathematics in the module. It also gives insight into the pedagogical decisions the authors made. The Why section helps teachers understand the module's underlying structure, including the content's flow and coherence.

3.Mod1.AD1	3.Mod1.AD2	3.Mod1.AD3
Represent a multiplication situation with a model and convert between several representations of multiplication. Note: This excludes the creation of a multiplication situation from an expression, an equation, or a model, which is reserved for module 3. .0.0A.A1	Represent a division situation with a model and convert between several representations of division. Note: This excludes the creation of a division situation from an expression, an equation, or a model, which is reserved for module 3. 3.0A.A.2	Solve one-step word j multiplication and div 100, involving factors 2-5 and 10. Note: Only one factor 2-5 or 10.
3.Mod1.AD4	3.Mod1.AD5	3.Mod1.AD6
SM012A04 Determine the unknown number in a multiplication or divisions equation involving factors and divisors 2-5 and 10. Note: Only one factor needs to be 2-5 or 10.	Apply the commutative property of multiplication to multiply a factor of 2-5 or 10 by another factor. 3.0A.8.5	Apply the distributive multiply a factor of 2- another factor.
3.Mod1.AD7 Represent and explain division as an unknown factor problem. 3.0A.B.6	3.Mod1.AD8 Multiply and divide within 100 fluently with factors 2-5 and 10, recalling from memory all products of two one- diait numbers.	3.Mod1.AD9 Solve two-step word Note: For module 1, ir or division problem ty
	Note: Only one factor needs to be 2–5 or 10.	factor or the divisor m





Why

Multiplication and Division with Units of 2, 3, 4, 5, and 10

Why are multiplication and division concepts taught in module 1 and module 3?

Understanding and applying multiplication and division concepts are part of the major work of grade 3. Beginning the year with multiplication and division concepts with units of 2, 3, 4, 5, and 10 maximizes time for students to develop conceptual understanding and build fluency. In module 2, students continue daily practice with multiplication and division through fluency activities. Students return to multiplication and division in module 3. They build upon the strong foundation established in module 1, now extending to more complete strategies with units of 6, 7, 8, 9, 0, and 1.

Multiplication concepts are the basis of much of the other work in grade 3 (e.g., area of plane figures, building fractions from unit fractions, and scaled bar and picture graphs). Beginning the year with multiplication allows for rich connections and enables multiplication to be the lens through which other concepts are explored.

How does the learning progress from module 1 to module 3?

Students' familiarity with skip-counting by twos, fives, and tens from earlier grade levels provides a natural starting point to establish the concepts of multiplication and division in module 1.

Early representations for multiplication and division in module 1 include equal groups and arrays, which are used to skip-count. Students learn the meaning of multiplication and division with familiar units of 5 and 10 and the smaller units of 2, 3, and 4, which allows for a smoother transition to more abstract representations, such as tape diagrams, before working with larger units.



Achievement Descriptors are standardsaligned descriptions that detail what students should know and be able to do based on the instruction in the lesson.

The corresponding **Proficiency Indicators**, located in the back of the Teach book, help you assess your students' level of proficiency or how well a student learns a specific concept or skill.

Teach | Explore and Study the Teacher Materials (continued)

Each topic begins with a Topic Overview. It explains the mathematics and the major learning in the topic and typically includes information about how learning connects to previous or upcoming content.

Lesson Progressions charts highlight student work and language aligned with each objective.



Lesson at a Glance

Students select strategies to represent and solve multiplication word problems by using drawings and equations. A video provides context for the word problems. After working independently to solve the problems, students share their work to compare and connect various representations and strategies.

Key Questions

- How is a tape diagram a useful model to use when solving multiplication word problems?
- How do you decide which model to use when solving a multiplication word problem?

Achievement Descriptor

3.Mod1.AD3 Solve one-step word problems by using multiplication and division within 100, involving factors and divisors 2–5 and 10. (3.OA.A.3) The Lesson Overview helps teachers prepare each lesson. It contains the following:

- 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 map what students should know and be able to do based on the instruction of the specific lesson to the standards covered.
- An image of the Exit Ticket from the end of the lesson, which serves as a formative assessment opportunity.
- Other helpful items in this section include the learning agenda, a required materials list, and lesson preparation notes.

Lesson Structure

Every K-5 *Eureka Math*² lesson is organized into four sections, providing the teacher with a predictable structure with a simple-to-complex sequence of instruction.

Agenda

Fluency 5 min

Launch 5 min

Learn 40 min

- Equal Groups Word Problem
- Equal Groups: Share, Compare, and Connect
- Array Word Problem
- Array: Share, Compare, and Connect
- Problem Set

Land 10 min

Lesson Features

Lessons model student-teacher vignettes and sample student responses for every component of each lesson and provide teachers with a picture of how the lesson might look and sound while creating a clear conceptual understanding of the pedagogical content knowledge. These vignettes are helpful guides, not scripts.



- Fluency opens each lesson and provides distributed practice with previously learned material. This practice prepares students for new learning by activating prior knowledge, bridging small learning gaps, and ensuring distributed practice.
- 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 sequenced from simple to complex.
- Land provides time for teachers to facilitate a brief closing discussion and for students to complete the Exit Ticket.

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Prompt students who use	-	-	_
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form with the sentence frame:	-		-
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Then follow up by asking: How		-	-
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Students model with mathematics (MP4) as they iteratively create a drawing and equation to represent and solve a word problem (i.e., the Read-Draw-Write process).

Ask the following questions to promote MP4:

- the roller coaster problem?
 What kind of math could you use to
- represent your model?
- What key pieces of information from the roller coaster problem should be in your model and your equation?

The lesson's margin notes provide strategies and tools to guide facilitation, differentiation, and lesson 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.

In addition, we employ instructional routines to support all students in engaging with and understanding mathematical concepts. These core and other routines optimize access, engagement, and confidence.

Teach Explore and Study the Teacher Materials (continued)

Learn | Explore and Study the Student Materials

Assessment at a Glance

In addition to being administered digitally, Topic Quizzes, Module Assessments, Pre-module Assessments, and Benchmark can be administered in print and scored manually. This gives you the utmost flexibility should technology not be accessible when assessing student achievement.

The *Learn* books, also known as the Student Editions, are available as a six-volume set, one book for each module at each grade level. They are a consumable resource students need to participate in the lesson, engage in independent practice, and record Exit Ticket responses. It's also available in Spanish for levels K–5. Here are some of the main features of this resource.

The Talking Tool, detailed on the inside cover
of every <i>Learn</i> book, provides sentence frames
and sentence starters to help guide student
discourse.

Similarly, the Thinking Tool, on the inside back cover of the *Learn* book, provides a set of questions students can ask themselves before, during, and after engaging in a task.



Iconography at the top of the *Learn* pages help you better understand the type of content being covered. As you review these pages, notice that a magnifying glass indicates classwork that students use during the guided or directed portion of the lesson. In addition, an orange bar indicates that the page can be removed and displayed on a whiteboard for an activity. The gears icon in the top corner of some pages highlights the Problem Set, which is differentiated, in-class, independent practice. And finally, the ticket icon with a check mark indicates that the page is the Exit Ticket for the lesson.

All student materials are intentionally designed to be readable while maintaining mathematical rigor. We have reduced wordiness and been intentional in our language choices and sentence length to make the program accessible to all students.

Component	Details	Where to Find	к	1-2	3-Alg. I
Achievement Descriptors: Overview	1 set per module	Front of Each Teach Book	•	•	•
Achievement Descriptors: Proficiency Indicators	1 set per module	Back of Each Teach Book	•	•	•
Observational Assessment Recording Sheet	1 per module	Back of Each Teach Book	•	•	
Exit Ticket, Print	1 per lesson* *Except for the last lesson of the topic in Levels 1–2	Lesson Overview in Teach Book In Learn Book Great Minds® Digital Platform		•	•
Topic Ticket, Print	1 per topic *Replaces the Exit Ticket of the last lesson of the topic	Lesson Overview in Teach Book In Learn Book Great Minds Digital Platform		•	
Topic Quiz, Print	3 analogous versions per topic	Great Minds Digital Platform			•
Topic Quiz, Digital	3 analogous versions per topic	Great Minds Digital Platform			•
Module Assessment, Interview Style	1 per module	Back of Teach Book Great Minds Digital Platform	•		
Module Assessment, Print	1 per module in Levels 1–2 2 analogous versions per module in Level 3–Algebra I	Levels 1-2: Back of Teach Book Level 3-Algebra I: Great Minds Digital Platform		•	•
Module Assessment, Digital	2 analogous versions per module	Great Minds Digital Platform			•
Premium Asse	ssment Package (includes	all of the above plus the iten	ns helov	w)	
Eureka Math ² Equip Pre-Module Assessments, Interview Style	4 per year	Great Minds Digital Platform		•	
Eureka Math ² Equip Pre-Module Assessments, Print (core items only)	4 per year	Great Minds Digital Platform		•	•
Eureka Math ² Equip Pre-Module Assessments, Digital (core and branch items with reports that recommend supporting activities)	4 per year	Great Minds Digital Platform		•	•
Benchmark Assessment, Print	3 per year	Great Minds Digital Platform		•	
Benchmark Assessment, Digital	3 per year	Great Minds Digital Platform			•

Observational Assessment Recording Sheet

	Dates and Details of Observations
Count to 10.	
Write numbers from 0 to 10.	
Represent a group of objects with a written numeral 0-10.	
Say one number name with each object when counting up to 10 objects.	
Use the last number of a count to tell how many regardless of arrangement or order counted.	
Say how many without recounting when objects are rearranged.	
Recognize that each successive number is one more when counting within 10.	
Count to answer how many questions about as many as 10 things arranged in a line, a rectangular array, a circle, or a scattered configuration.	
Count out a given number of 1-10 objects from a larger group.	
Sort objects into categories.	
	PP Partially Proficient P Proficient HP Highly Proficient
	Write numbers from O to 10. Represent a group of objects with a written numeral 0-10. Say one number name with each object when counting up to 10 objects. Use the lost number of a count to tell how many regardless of arrangement or order counted. Say how many without recounting when objects are rearranged. Recognize that each successive number is one more when counting within 10. Counts or more, a circle, or a scattered configuration. Counts out a given number of 1-10 objects hom a larger group.

The Assessment System at a Glance for grade levels K-2 include an Observational Assessment Recording Sheet. This sheet is used to make notes about student performance during any part of the lesson, including written work on the Problem Set.





Apply | Family Engagement

Additional Resources | Eureka Math² Manipulatives

Available for grade levels 1–5, the *Apply* book offers students more practice with the concepts learned in class. This consumable book has three components that support students in deepening their understanding of the concepts covered in the daily lesson.





Family Math is a letter to families describing the current topic's major concepts. It also includes visual supports students can use to explain the concepts or strategies to their families.

Practice problems interleave and distribute practice, providing students with opportunities to discern and recall which knowledge, concepts, and strategies are appropriate for solving different problems.





Practice Partners provides a unique kind of support that takes students through the thinking of a hypothetical partner solving problems similar to those found in Practice.



Available for purchase from our manipulatives partner, Didax, these tools help bring mathematics to life in your classroom and give your students engaging, hands-on tools to visualize mathematics. Both complete and supplemental kits are available for purchase.

Visit <u>eurekamath.didax.com/</u> for more information.

Implementation Support Resources

Online Implementation Support Resources

Services and Support from a Trusted Partner

Implementation resources are located at point of use in the Great Minds Digital Platform and include the following:

- Implementation Guides: Available for grade level K, levels 1–2, levels 3–5, level 6–Algebra 1. It also includes support for planning, instructional routines, and Assessment at a Glance.
- **Community:** The Math Night Guide and Presentation and Family Math page provide invaluable support to support mathematicians at home.
- **Tools:** This section includes lists of required materials, Terminology, and Posters used during a lesson.
- **Eureka Math² Equip:** Essential Foundational Knowledge at a Glance and Equip Videos help teachers provide short bursts of just in time instruction.

	Implement
	Teacher Resources Implementation Guides Maps Community Tools Equip Resources
=	Implement
	Welcome to Implement. This page supports effective implementation of Eureka Math ² .
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	Community – Math Night Guide and Presentation, Family Math page
	Tools – Materials, Terminology, Posters
	Equip – Essential Foundational Knowledge At a Glance, Equip Videos
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	Additional Resources
	See the HELP CENTER for digital platform guidance, Onboarding support, Trouble shooting, and ClassLink Rostering.
	Eureka Math ² <u>Webinars</u>
	Eureka Math ² <u>Ah-ha Blogs</u>
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On-Demand Webinar Library & Research Papers

A variety of free *Eureka Math*² webinars are available to provide support on topics including planning and pacing, readability, Universal Design for Learning, assessments, and much more. Access the webinar library at greatminds.org/webinar.

Also, new to *Eureka Math*², we have created a space to house the research behind our new program. Visit greatminds.org/research.

Blog Posts

The Great Minds *Aha!* Blog includes posts on a wide range of topics. Each month the *Eureka Math*² Implementation Success team adds new content on specific tips for successful implementation.

Access the blog through greatminds.org/math/blog/eureka.

Professional Development & Coaching

Great Minds is the only organization that can offer implementation support written by the curriculum's teacher-writers and delivered by seasoned math educators.

To view the many options for professional development and personalized coaching, visit greatminds.org/math/professional-development.

QUESTIONS?

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greatminds.org/em2-georgia (password: georgia-math