EUREKA MATH²®

PREK

Program Overview



Deeper Thinking.
Greater Growth.

GREAT MINDS®



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Mathematics Foundation	Coherent Design	Cognitive Engagement	Confident Learning	Professional Development	*Eureka Math²* Components
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Deeper Thinking. *Greater Growth.*

At Great Minds®, we believe that all students are capable of greatness—and all teachers deserve high-quality, research-proven instructional materials that foster more "aha!" moments.

Eureka Math²® is a PreK-Algebra I coherent, evidence-based core mathematics curriculum designed to empower teachers to center instruction on student success and help all learners build a mathematics foundation.

With *Eureka Math²,* teachers can:

Make learning stick with a **Coherent Design**

Build rich understanding through **Cognitive Engagement**

Foster a classroom culture that instills **Confident Learning**



Coherent Design

When Math Connects, Learning Sticks



Foundational understanding requires coherence and connectivity of ideas.

Eureka Math^2 gives teachers a clear and coherent path to help Prekindergarten students build a mathematics foundation. That's why the topics, concepts, and hands-on learning experiences follow a consistent sequence. The instructional approaches are a strategic blend of conceptual understanding, fluency, and application—all intentionally driven by student learning outcomes.

Coherence Strengthens Learning:

Across Grades and Modules:
Students build knowledge steadily and confidently through a logical progression that connect concepts over time.

Through Routines:
With intentionally integrated instructional and vocabulary-rich routines across lessons, students are introduced to the language of mathematics.

Through Models:
Students engage in meaningful hands-on learning experiences that help them explore and connect mathematical ideas.



Following a logical and systematic mathematical progression, *Eureka Math*^{2} Prekindergarten is built using a research-backed lesson design to help students engage with the learning by discrete concept.



Lesson Types

Math Anytime

Math Anytime provides suggested activities to infuse math throughout the lesson.

Students Will	Teachers Will
Discover that math is part of their everyday experiences	Have the guidance to ask students key questions to support big ideas based on the current topic

Launch

Launch hooks students into the day's lesson through inquiry.

Students Will	Teachers Will
See mathematical reasoning and make real-world connections	Provide familiar instructional routines that build confidence and conceptual understanding

Learn

Learn introduces new content gradually and coherently.

Students Will	Teachers Will
Explore and develop mathematical ideas and concepts	Introduce exploratory and play-based strategies as well as guide all students by using Universal Design for Learning scaffolding and differentiation support

Land

Land (optional) provides closure and realignment to the learning objective.

Students Will	Teachers Will
Apply and solidify their understanding of key concepts	Lead a debrief that reinforces and consolidates learning

Fluency Anytime

Fluency Anytime provides fluency activities for use throughout the topic.

Students Will	Teachers Will
Access prior knowledge and build confidence	Have opportunities to select fluency activities at any time

The Student Learning Arc

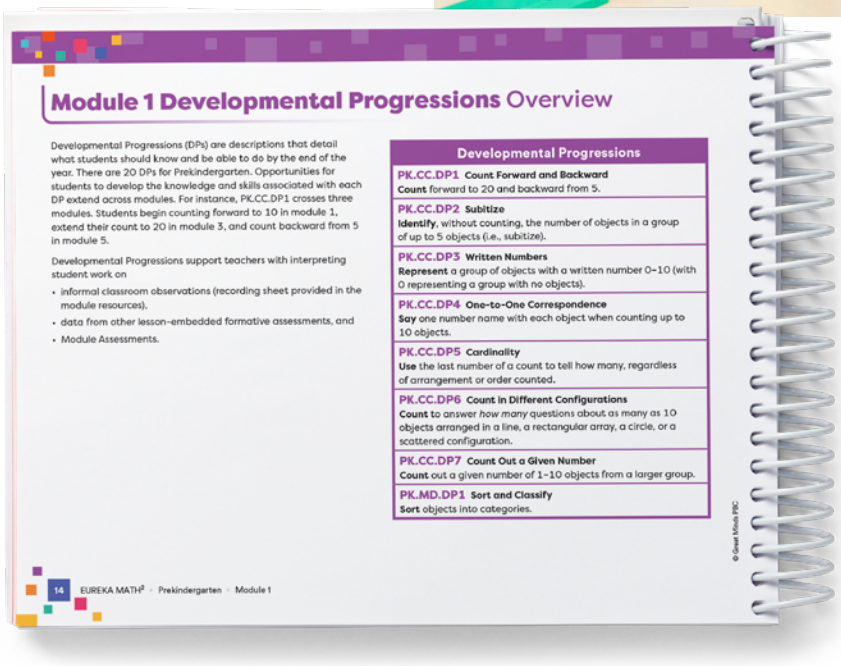
Developmental progressions allow teachers to align with learner ability.

Eureka Math^2 Prekindergarten shows developmental progressions that prepare students for the learning they will explore in Kindergarten.



Developmental Progressions Overview

Developmental Progressions detail what students should know and be able to do across modules. Understand the skills and knowledge that students will develop while keeping track of their progress throughout modules and the school year.



Module 1 Developmental Progressions Overview

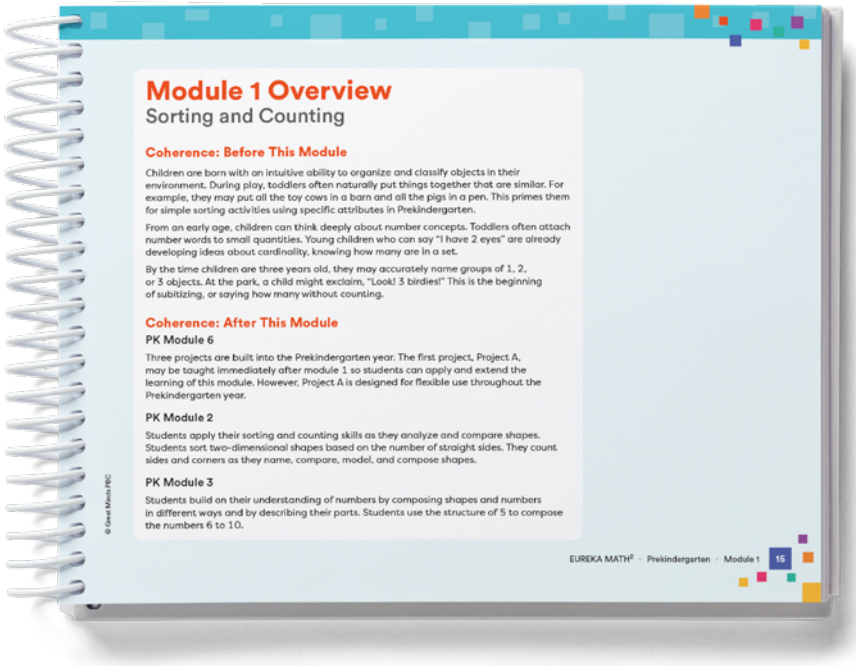
Developmental Progressions (DPs) are descriptions that detail what students should know and be able to do by the end of the year. There are 20 DPs for Prekindergarten. Opportunities for students to develop the knowledge and skills associated with each DP extend across modules. For instance, PK.CC.DP1 crosses three modules. Students begin counting forward to 10 in module 1, extend their count to 20 in module 3, and count backward from 5 in module 5.

Developmental Progressions support teachers with interpreting student work on

- informal classroom observations (recording sheet provided in the module resources),
- data from other lesson-embedded formative assessments, and
- Module Assessments.

Developmental Progressions
PK.CC.DP1 **Count Forward and Backward** **Count** forward to 20 and backward from 5.
PK.CC.DP2 **Subitize** **Identify**, without counting, the number of objects in a group of up to 5 objects (i.e., subitize).
PK.CC.DP3 **Written Numbers** **Represent** a group of objects with a written number 0–10 (with 0 representing a group with no objects).
PK.CC.DP4 **One-to-One Correspondence** **Say** one number name with each object when counting up to 10 objects.
PK.CC.DP5 **Cardinality** **Use** the last number of a count to tell how many, regardless of arrangement or order counted.
PK.CC.DP6 **Count in Different Configurations** **Count** to answer *how many* questions about as many as 10 objects arranged in a line, a rectangular array, a circle, or a scattered configuration.
PK.CC.DP7 **Count Out a Given Number** **Count** out a given number of 1–10 objects from a larger group.
PK.MD.DP1 **Sort and Classify** **Sort** objects into categories.

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Module 1 Overview
Sorting and Counting

Coherence: Before This Module

Children are born with an intuitive ability to organize and classify objects in their environment. During play, toddlers often naturally put things together that are similar. For example, they may put all the toy cows in a barn and all the pigs in a pen. This primes them for simple sorting activities using specific attributes in Prekindergarten.

From an early age, children can think deeply about number concepts. Toddlers often attach number words to small quantities. Young children who can say "I have 2 eyes" are already developing ideas about cardinality, knowing how many are in a set.

By the time children are three years old, they may accurately name groups of 1, 2, or 3 objects. At the park, a child might exclaim, "Look! 3 birdies!" This is the beginning of subitizing, or saying how many without counting.

Coherence: After This Module

PK Module 6

Three projects are built into the Prekindergarten year. The first project, Project A, may be taught immediately after module 1 so students can apply and extend the learning of this module. However, Project A is designed for flexible use throughout the Prekindergarten year.

PK Module 2

Students apply their sorting and counting skills as they analyze and compare shapes. Students sort two-dimensional shapes based on the number of straight sides. They count sides and corners as they name, compare, model, and compose shapes.

PK Module 3

Students build on their understanding of numbers by composing shapes and numbers in different ways and by describing their parts. Students use the structure of 5 to compose the numbers 6 to 10.

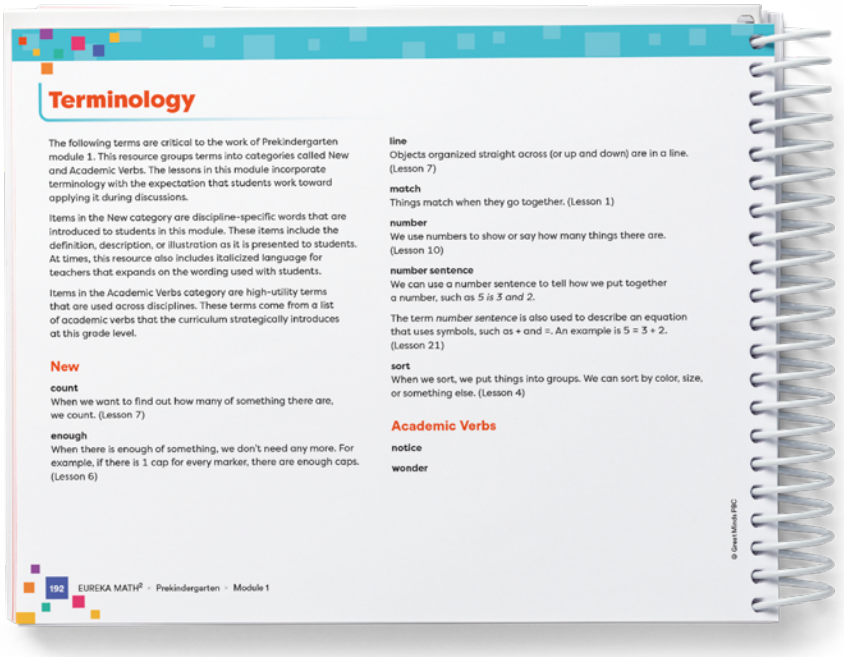
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Preparation for Module

View brief module overviews, including Before and After This Module and The Why Behind the Lesson Design, to understand the foundation of the module so that teachers can help students build connections across their learning.

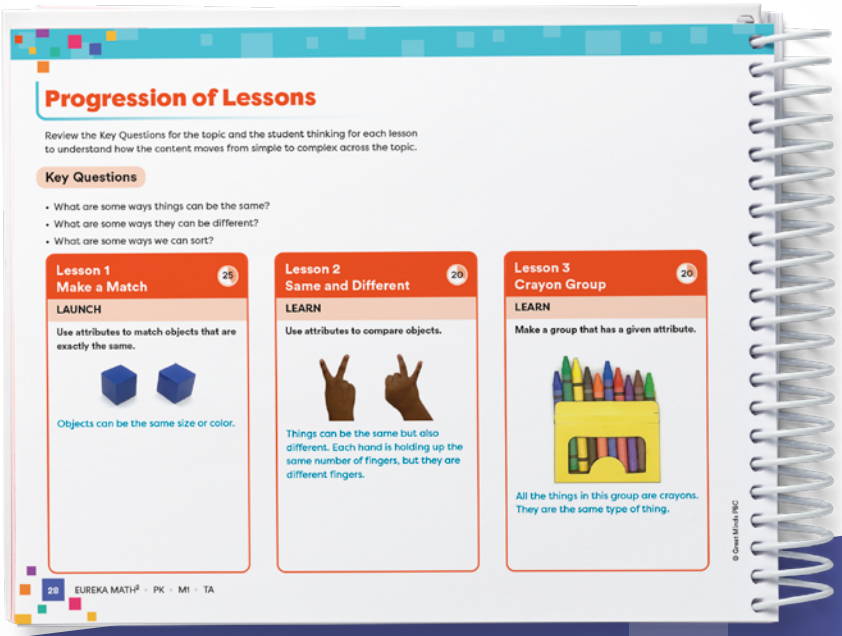
Terminology

View terms incorporated into Prekindergarten modules including new, familiar, and academic verbs that allow students the opportunity to understand the meanings and utilize the terms in their learning process.



Progression of Lessons

Take a quick glance at how each lesson plays a part in the greater sequence of learning and review key questions related to the topic. Understand how this progression shows up in student thinking.



IMPACT INTEL

"There's not a bit of the curriculum that isn't written to be thoughtful, intentional, and coherent."

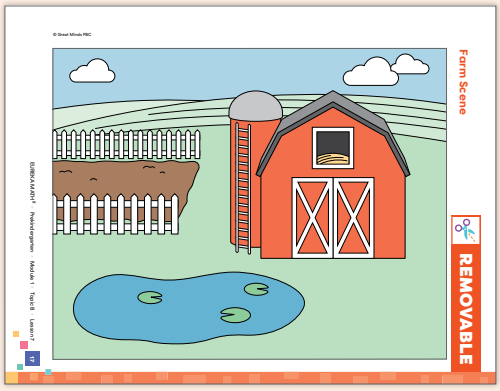
– Ryan Redd, Math Specialist, New Hanover County Schools, North Carolina

Building Understanding Through Meaningful Engagement

Eureka Math² Prekindergarten is grounded in developmentally appropriate learning. The program engages students across every learning style—visual, kinesthetic, auditory, and social—in an environment supported by purposeful routines.

Math in Action

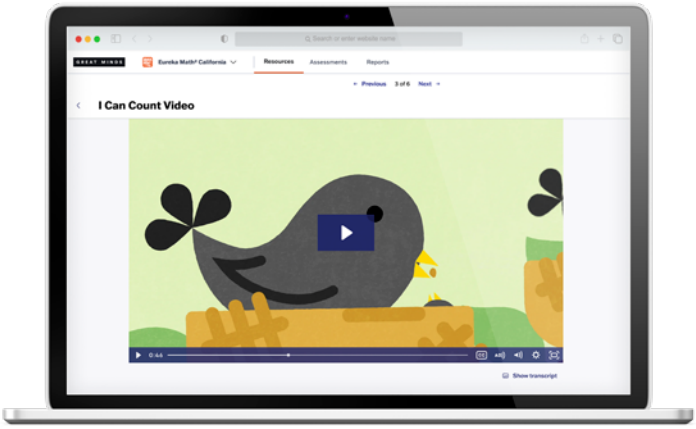
Not all engagement yields the same cognitive impact. *Eureka Math²* lessons invite students to take part in hands-on exploration, to ask questions, and to learn alongside their peers.





Connecting Math with Language and Literacy

Eureka Math² Prekindergarten connects mathematics with language and literacy throughout the program so students can strengthen both their early math development and language growth. With core texts, Math Past, Number Rhymes, embedded music videos, and wordless concept videos, students can talk about their ideas, build new vocabulary, and make sense of numbers in meaningful ways.





Building Math Ideas Together

Eureka Math^2 equips teachers with Mathematical Language Routines to promote meta-awareness and peer discourse, introducing students to math terminology and new concepts. As students ask questions, share their thinking, and build ideas together, they engage in meaningful interactive learning experiences.



IMPACT INTEL

> *Teaching math has become more exciting because students are the ones driving the learning. When teachers step back and create space for student thinking, discourse, and discovery, the classroom comes alive."*

– Dr. Brian Lack, K–8 Mathematics Curriculum and Instruction Specialist, Forsyth County Schools, Georgia

Engaging Young Minds Through Play-Based Learning

Play-based learning is essential for developing cognitive and social skills. *Eureka Math²* Prekindergarten fosters cognitive engagement through consistent routines and hands-on explorations that invite students to actively think, try out ideas, build language skills, and become truly curious about math.

Math in Everyday Moments

Math Anytime provides teachers with simple, practical ways to weave math into daily classroom routines and learning experiences while also offering natural, real-world opportunities for observational assessment.

Fluency Anytime includes quick, engaging activities with minimal materials. The activities strengthen foundational math skills, such as counting, through active and meaningful practice.





Engaging in Meaningful Math Projects

In *Eureka Math²* Prekindergarten, students engage in cognitively rich math projects that strengthen their mathematical thinking.

Module Projects are opportunities for students to engage playfully with math content through meaningful contexts. They are designed to be used flexibly and provide a break in the routine so students can fully synthesize and joyfully apply their learning.



Addressing Varying Student Needs to Build Confident Learners

When teachers are supported by comprehensive, lesson-embedded guidance, they can create classrooms where every learner thrives. *Eureka Math²* integrates Universal Design for Learning principles, language and terminology development, and differentiation to provide equitable learning and lasting confidence for all learners.

Embedded Teacher Guidance

Eureka Math² instruction includes embedded margin notes throughout each lesson to clarify task purpose, anticipate potential misconceptions, provide language support, and offer suggestions to make early connections with mathematical concepts.

Teacher Note

Anticipate that students may not recognize that the triangles are exactly the same. Orientation is an attribute that will be further explored in module 2. Advance student thinking by asking the following questions:

- Are the triangles the same shape?
- Are they the same color?
- Are they the same size?
- What's different? Can we move one of the triangles so they are exactly the same?

Universal Design for Learning: Engagement

Promote engagement through movement. Invite students to move (stomp, stand, clap, or hop) if their objects are the same in one of the following ways: size, shape, or color. For example, "Clap if your object is the same size as Gino and Nala's blocks."

Multilingual Learner Support

To give students support with the word *notice*, consider emphasizing the word when speaking it while gesturing to your eye. Continue this support throughout the topic as needed.



Promoting Mathematical Practice

Students use appropriate tools strategically when they use physical objects such as shoes and socks to explore the concepts of like attributes and different attributes.

Differentiation: Challenge

Consider asking students to think of other ways the objects can be sorted, such as by color. Ask the following questions:

- Is there another way to sort?
- Did we have more groups when we sorted by color or when we sorted by kind of art supply?

Differentiation: Support

Expect students to have a wide range of counting experience. Consider providing a template to give students support in organizing their count in a line and in answering *how many* questions about their animals.



Universal Design for Learning

The *Eureka Math²* curriculum was awarded the CAST (Center for Applied Special Technology) Universal Design for Learning Product Certification, ensuring students have multiple ways to access content, engage with ideas, and demonstrate understanding so that every learner can reach success with confidence.

UDL: Engagement	UDL: Representation	UDL: Action & Expression	Differentiation
Support motivation and enthusiasm	Support perception and comprehension	Support expression of learning and executive function enthusiasm	Offer additional support and provide challenge

IMPACT INTEL

"We didn't learn math this way, but our kids have a greater understanding of math than we did, and they can explain it."

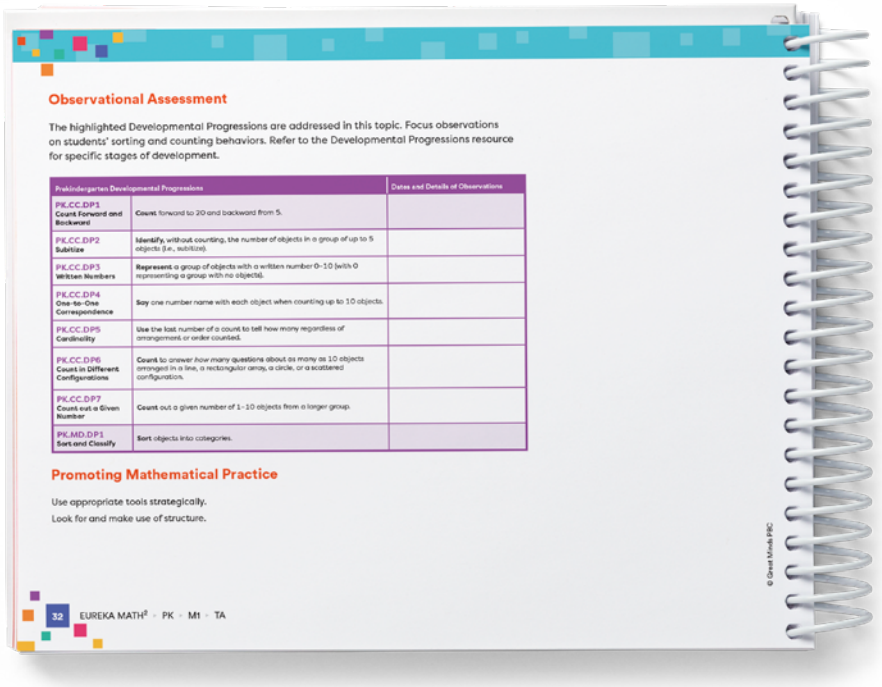
– Jeanette Ramsey, Director of Teaching and Learning, Northwest Public Schools Grand Island, Nebraska

Assessment That Gives Perspective

Eureka Math² incorporates a balance of assessment pathways designed to monitor student progress and guide instruction. We recognize that Prekindergarten students benefit from developmentally appropriate assessments, so *Eureka Math²* utilizes a formative and summative assessment. Through these assessments, teachers can receive insights that reduce the guesswork and strengthen their ability to deliver responsive, targeted, and effective instruction.

Observational Assessment Recording Sheets (OARS)

Teachers can utilize these formative assessment sheets in every topic as a qualitative checklist that captures student developmental progress on learning goals.



Observational Assessment

The highlighted Developmental Progressions are addressed in this topic. Focus observations on students' sorting and counting behaviors. Refer to the Developmental Progressions resource for specific stages of development.

Prekindergarten Developmental Progressions		Dates and Details of Observations
PK.CC.DP1 Count Forward and Backward	Count forward to 20 and backward from 5.	
PK.CC.DP2 Subitize	Identify, without counting, the number of objects in a group of up to 5 objects (i.e., subitize).	
PK.CC.DP3 Written Numbers	Represent a group of objects with a written number 0–10 (with 0 representing a group with no objects).	
PK.CC.DP4 One-to-One Correspondence	Say one number name with each object when counting up to 10 objects.	
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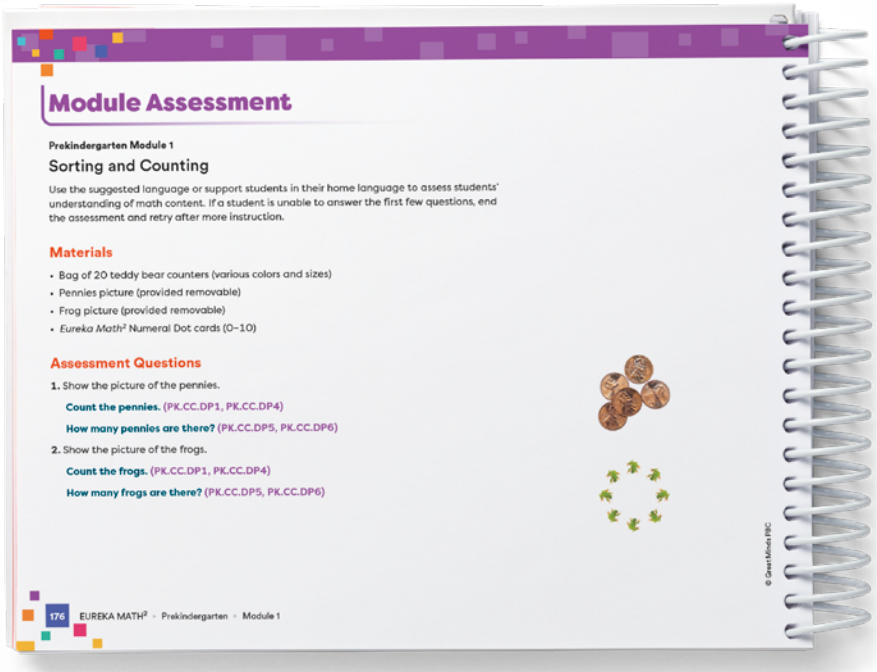
Promoting Mathematical Practice

Use appropriate tools strategically.
Look for and make use of structure.

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Module Assessment

At the end of each Prekindergarten module, teachers can assess student understanding of math content through interview-style items that evaluate student proficiency of the major concepts, skills, and applications from the module.



Module Assessment

Prekindergarten Module 1

Sorting and Counting

Use the suggested language or support students in their home language to assess students' understanding of math content. If a student is unable to answer the first few questions, end the assessment and retry after more instruction.

Materials

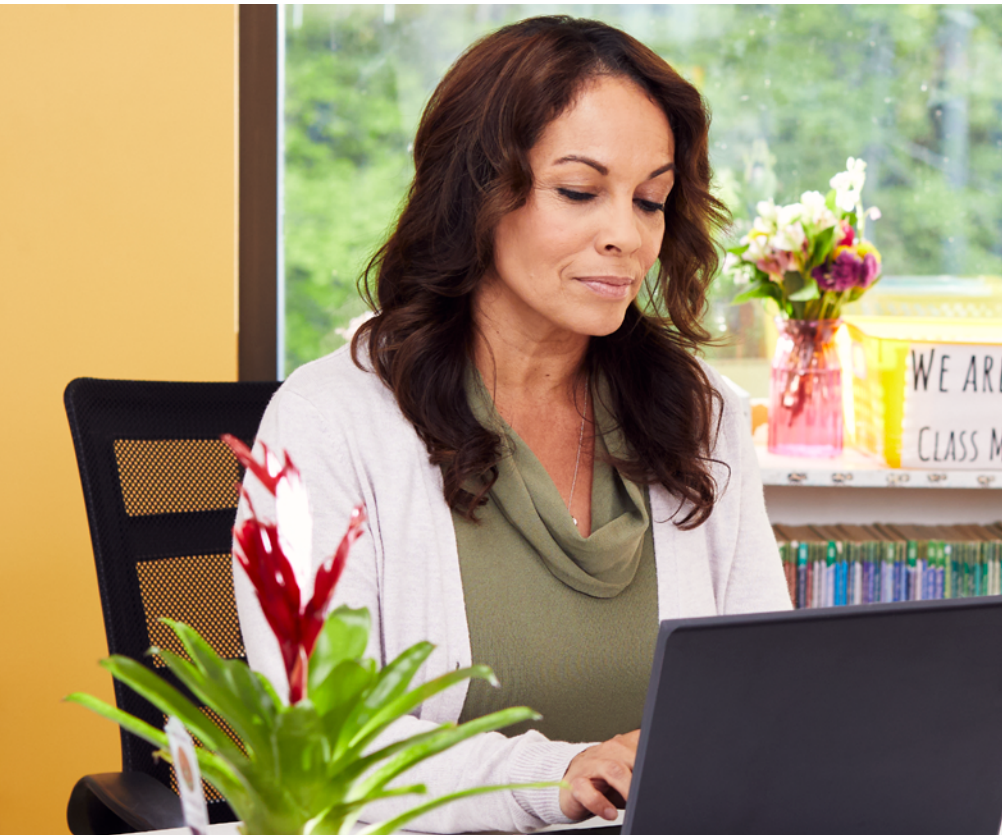
- Bag of 20 teddy bear counters (various colors and sizes)
- Pennies picture (provided removable)
- Frog picture (provided removable)
- *Eureka Math²* Numeral Dot cards (0–10)

Assessment Questions

1. Show the picture of the pennies.
   - **Count the pennies.** (PK.CC.DP1, PK.CC.DP4)
   - **How many pennies are there?** (PK.CC.DP5, PK.CC.DP6)
2. Show the picture of the frogs.
   - **Count the frogs.** (PK.CC.DP1, PK.CC.DP4)
   - **How many frogs are there?** (PK.CC.DP5, PK.CC.DP6)

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On-Demand Professional Learning



The Great Minds digital platform features a comprehensive knowledge hub with access to robust pedagogical tools. With how-to videos that model lesson routines, an in-depth implementation guide, a scope and sequence map, and more, these on-demand resources provide teachers with clear guidance and practical strategies for implementing *Eureka Math²*.

Professional Learning Services

Workshops
Foundational, curriculum-aligned learning experiences

Coaching
In-context, hands- on support to tailor instruction and sustain implementation

On-Demand Learning
Flexible, self-paced learning options

Through workshops, coaching, and on-demand tools, Great Minds provides feedback-rich, curriculum-aligned support that grows with your team over time. Every experience builds confidence, deepens expertise, and drives sustainable success across classrooms, schools, and districts.



IMPACT INTEL

Great Minds has impacted nearly 2.7 million students.

over **405,000** HOURS OF PROFESSIONAL LEARNING*

nearly **9,000** SCHOOLS*

*Using Great Minds curriculum since 2016.

Inside *Eureka Math²* Components

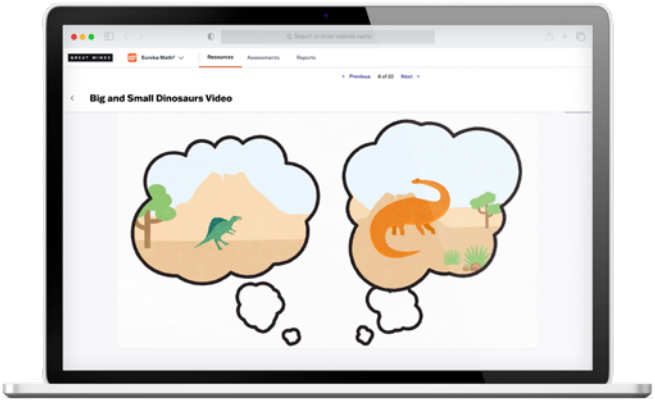


Teach

TEACHER EDITION

The *Teach* book empowers teachers with the tools and guided instruction they need to meet every student's learning needs.

- 6 *Teach* books (1 book per module)
- A lesson design that uses the following progression: **Math Anytime—Launch—Learn—Land—Fluency Anytime** lesson design
- Universal Design for Learning supports

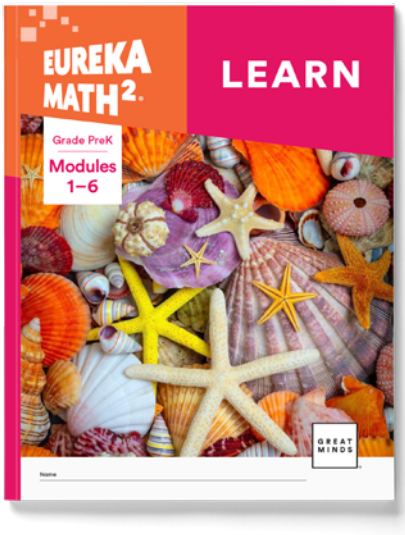


Teacher Digital

Teachers can experience a seamless integration of the digital platform into lessons to support teachability and foster student engagement.

- Lesson presentation slides
- Module, topic, and lesson resources
- Digital interactives
- Math song videos
- Context videos
- Professional development videos





Learn

STUDENT EDITION

The student *Learn* book correlates seamlessly with the structure of each lesson.

- 1 *Learn* book
- Classwork lesson pages
- Optional Problem Sets
- Family Math letters



Manipulative Kits

The collection of manipulatives supports students' cognitive and social development through hands-on learning.

- PreK kits
- Online virtual manipulatives

Core Texts

A bundle of core texts to use with the curriculum are available for purchase.



Designed for Deeper Thinking—Built for Greater Growth

Eureka Math² is committed to the belief that every student is capable of greatness. When instruction is coherent, engaging, and intentionally designed, students develop a lasting understanding of mathematics.

Eureka Math² brings this to life through

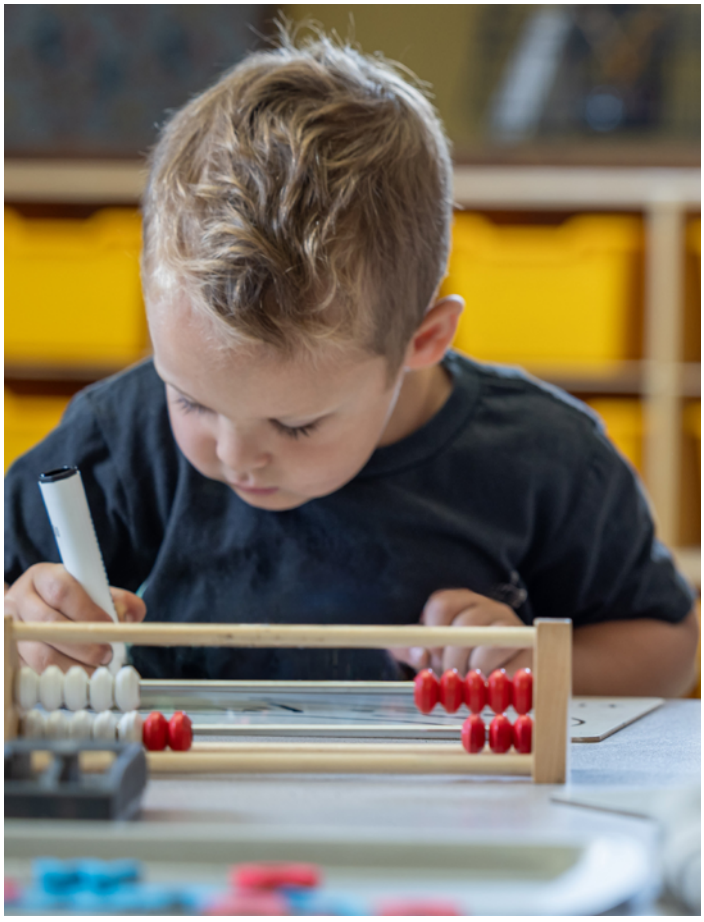
coherence
that makes learning stick,

cognitive engagement
that builds rich understanding, and

confident learning
that helps every student thrive.









Get ready to create the “aha!” moments that lead to greater growth.

EUREKA MATH²®

To learn more visit
greatminds.org/math/eurekamathsquared

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