EUREKA MATH² CALIFORNIA

TRANSITIONAL KINDERGARTEN

Program Overview



Deeper Thinking.
Greater Growth.

GREAT MINDS®



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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® California is a TK–Algebra I coherent, evidence-based core mathematics curriculum that helps teachers deliver on the vision of the California Mathematics Framework. Designed to empower students and teachers, *Eureka Math² California* centers instruction on student equity and success and helps all learners build a mathematics foundation.

With *Eureka Math² California,* teachers can:

Make learning stick with a **Coherent Design**

Build rich understanding through **Cognitive Engagement**

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



When Math Connects, Learning Sticks

Foundational understanding requires coherence and connectivity of ideas.

Eureka Math² California gives teachers a clear and coherent path to help Transitional Kindergarten students build a mathematics foundation that connects big ideas. 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.

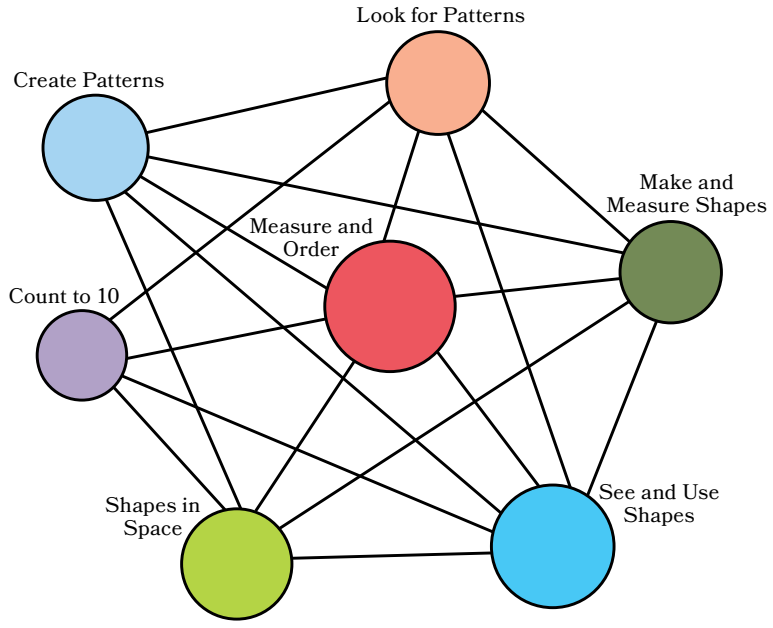


Coherence Strengthens Learning:

Across Grades and Modules:
Students build knowledge steadily and confidently through a logical progression that connect big ideas 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.



Big Ideas

The Big Ideas shape student learning in *Eureka Math² California* and allow students to make connections across modules and grade levels. By seeing math as a story, students build deep and enduring conceptual understanding.

Following a logical and systematic mathematical progression, *Eureka Math² California* Transitional Kindergarten is built using a research-backed lesson design to help students engage with the learning by discrete concept.



Lesson Types

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

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

Learn introduces new content gradually and coherently.

Land provides closure and realignment to the learning objective.

Fluency Anytime provides fluency activities for use throughout the topic.

Math Anytime	Launch	Learn	Land	Fluency Anytime
Students Will	**Students Will**	**Students Will**	**Students Will**	**Students Will**
Discover that math is part of their everyday experiences	See mathematical reasoning and make real-world connections	Explore and develop mathematical ideas and concepts	Apply and solidify their understanding of key concepts	Access prior knowledge and build confidence
Teachers Will	**Teachers Will**	**Teachers Will**	**Teachers Will**	**Teachers Will**
Have the guidance to ask students key questions to support big ideas based on the current topic	Provide familiar instructional routines that build confidence and conceptual understanding	Introduce exploratory and play-based strategies as well as guide all students by using Universal Design for Learning scaffolding and differentiation support	Lead a debrief that reinforces and consolidates learning	Have opportunities to select fluency activities at any time

The Student Learning Arc

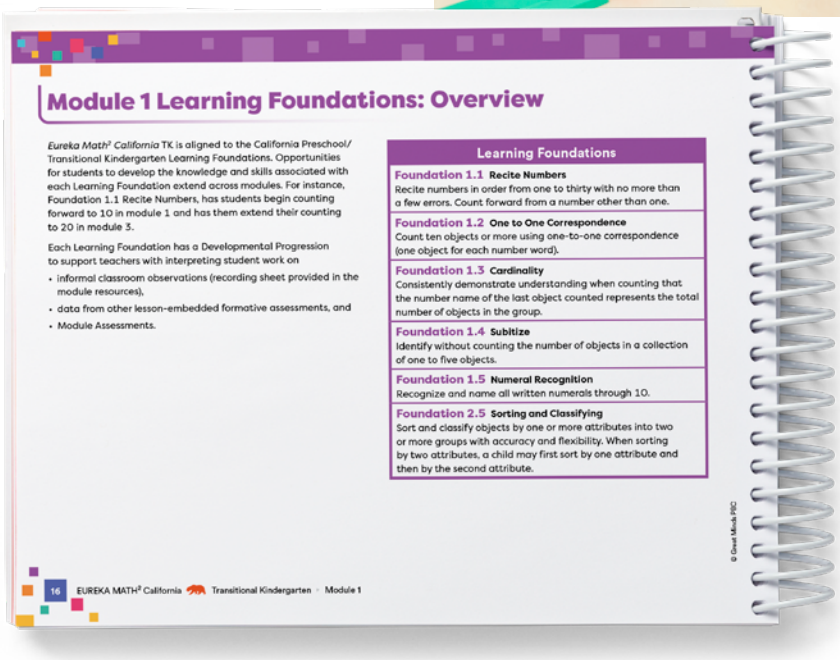
Learning Foundations allow teachers to align with learner ability.

Eureka Math² California Transitional Kindergarten shows learning foundations that prepare students for the learning they will explore in Kindergarten.



Learning Foundations Overview

Learning Foundations 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 Learning Foundations: Overview

Eureka Math² California TK is aligned to the California Preschool/ Transitional Kindergarten Learning Foundations. Opportunities for students to develop the knowledge and skills associated with each Learning Foundation extend across modules. For instance, Foundation 1.1 Recite Numbers, has students begin counting forward to 10 in module 1 and has them extend their counting to 20 in module 3.

Each Learning Foundation has a Developmental Progression to 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.

Learning Foundations

Foundation 1.1 Recite Numbers
Recite numbers in order from one to thirty with no more than a few errors. Count forward from a number other than one.

Foundation 1.2 One to One Correspondence
Count ten objects or more using one-to-one correspondence (one object for each number word).

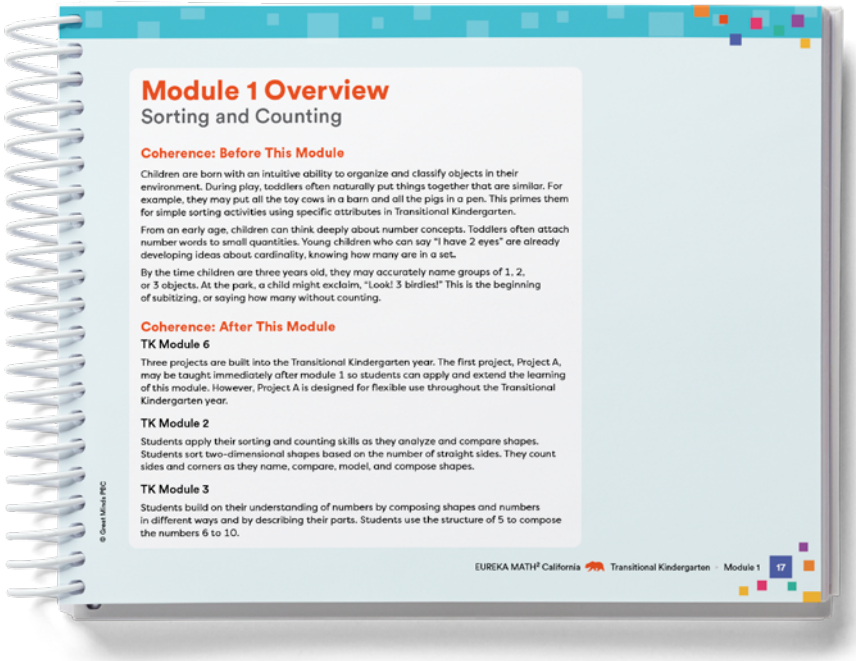
Foundation 1.3 Cardinality
Consistently demonstrate understanding when counting that the number name of the last object counted represents the total number of objects in the group.

Foundation 1.4 Subitize
Identify without counting the number of objects in a collection of one to five objects.

Foundation 1.5 Numeral Recognition
Recognize and name all written numerals through 10.

Foundation 2.5 Sorting and Classifying
Sort and classify objects by one or more attributes into two or more groups with accuracy and flexibility. When sorting by two attributes, a child may first sort by one attribute and then by the second attribute.

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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 Transitional Kindergarten.

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

TK Module 6

Three projects are built into the Transitional Kindergarten 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 Transitional Kindergarten year.

TK 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.

TK 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.

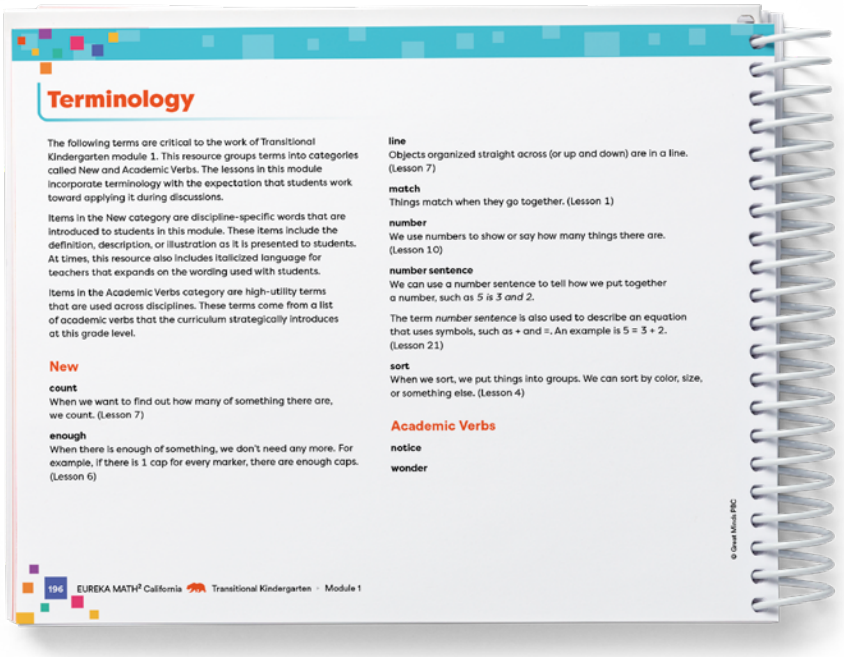
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Preparation for Module

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.

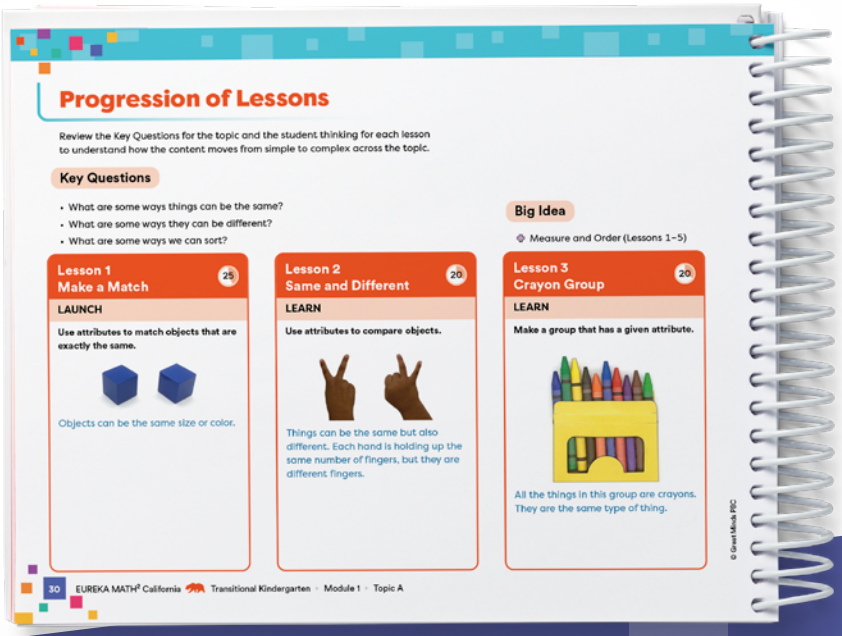
Terminology

View terms incorporated into Transitional Kindergarten 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."

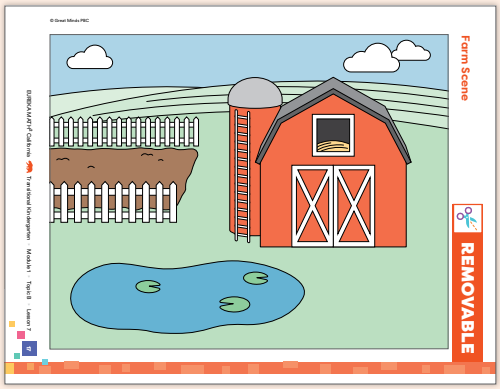
– Ryan Redd, Math Specialist, New Hanover County Schools, North Carolina

Building Understanding Through Meaningful Engagement

Eureka Math² California Transitional Kindergarten 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

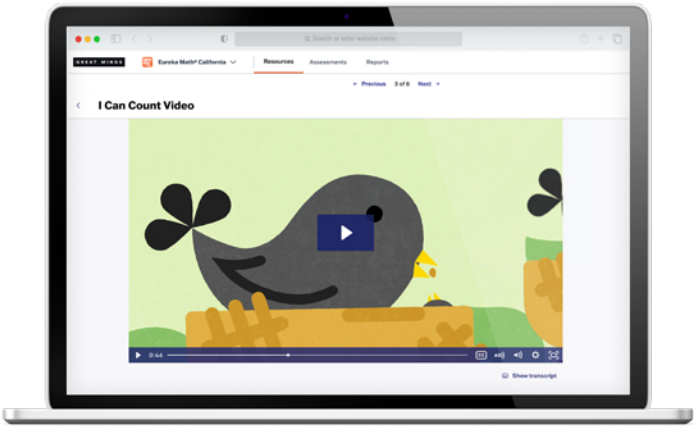
Not all engagement yields the same cognitive impact. *Eureka Math² California* lessons invite students to take part in hands-on exploration, to ask questions, and to learn alongside their peers.





Connecting Math with Language and Literacy

Eureka Math² California Transitional Kindergarten 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 Math² California 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 California* Transitional Kindergarten 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 California* Transitional Kindergarten, 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.

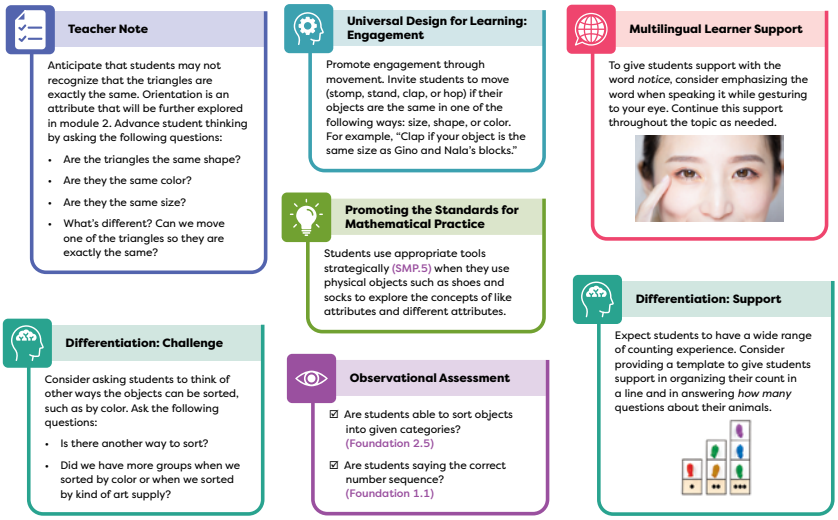


Addressing Varying Student Needs to Build Confident Learners

When teachers are supported by comprehensive, lesson-embedded guidance, they can create classrooms where every learner thrives. *Eureka Math² California* 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 California 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 and big ideas.



Universal Design for Learning

On top of *Eureka Math²* being awarded the CAST (Center for Applied Special Technology) Universal Design for Learning Product Certification, *Eureka Math² California* is the only math curriculum to receive a CAST certification for accessibility and product design.

We are advancing equity in math education—ensuring 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."

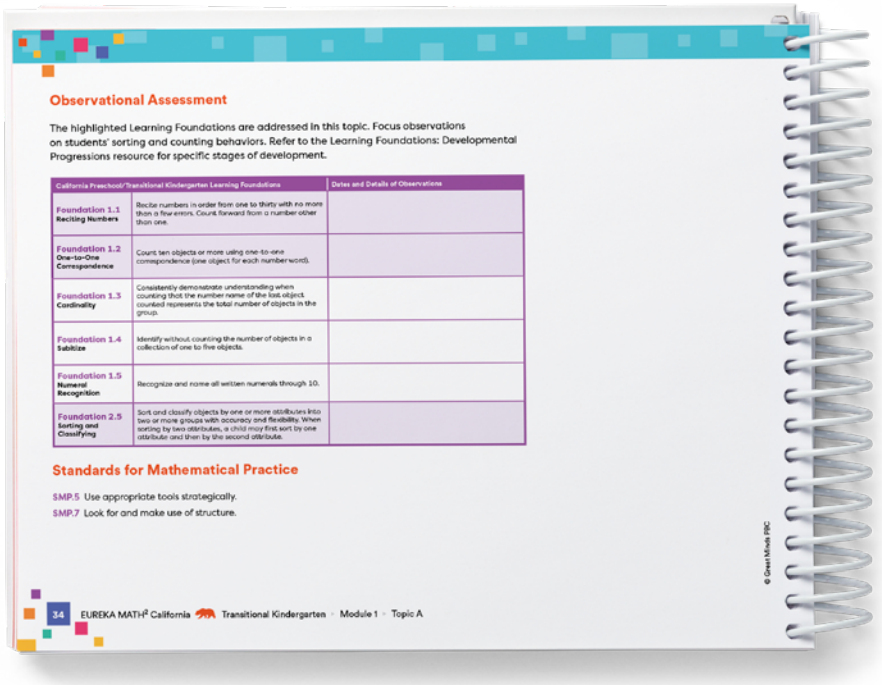
– Jeanette Ramsey, Director of Teaching and Learning, Northwest Public Schools Grand Island, Nebraska

Assessment That Gives Perspective

Eureka Math² California incorporates a balance of assessment pathways designed to monitor student progress and guide instruction. We recognize that Transitional Kindergarten students benefit from developmentally appropriate assessments, so *Eureka Math² California* 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 Learning Foundations are addressed in this topic. Focus observations on students' sorting and counting behaviors. Refer to the Learning Foundations: Developmental Progressions resource for specific stages of development.

California Preschool/Transitional Kindergarten Learning Foundations		Dates and Details of Observations
Foundation 1.1 Reciting Numbers	Recite numbers in order from one to thirty with no more than a few errors. Count forward from a number other than one.	
Foundation 1.2 One-to-One Correspondence	Count ten objects or more using one-to-one correspondence (one object for each number word).	
Foundation 1.3 Cardinality	Consistently demonstrate understanding when counting that the number name of the last object counted represents the total number of objects in the group.	
Foundation 1.4 Subitize	Identify without counting the number of objects in a collection of one to five objects.	
Foundation 1.5 Numeral Recognition	Recognize and name all written numerals through 10.	
Foundation 2.5 Sorting and Classifying	Sort and classify objects by one or more attributes into two or more groups with accuracy and flexibility. When sorting by two attributes, a child may first sort by one attribute and then by the second attribute.	

Standards for Mathematical Practice

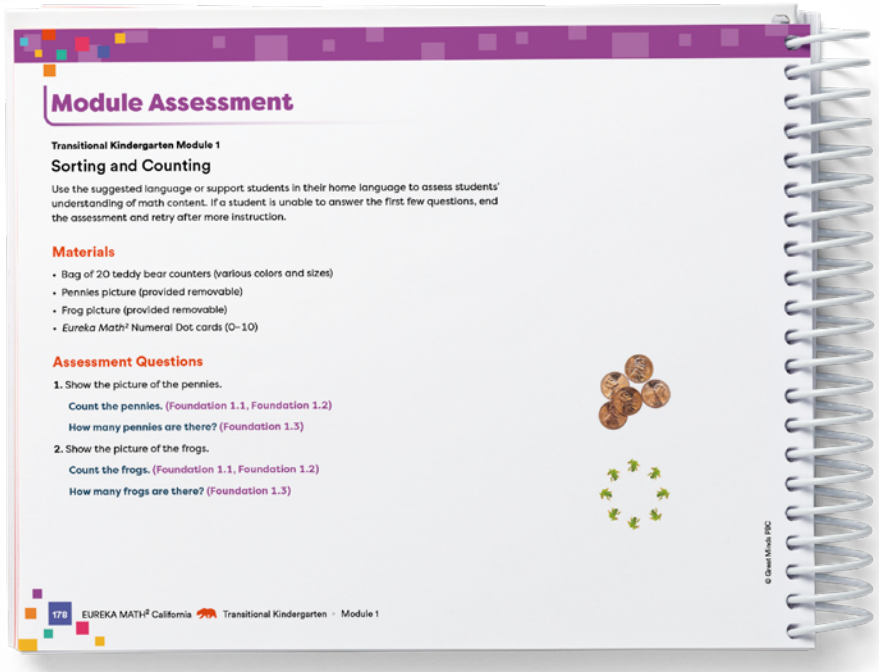
SMP.5 Use appropriate tools strategically.
SMP.7 Look for and make use of structure.

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Module Assessment

At the end of each Transitional Kindergarten 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

Transitional Kindergarten 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. (Foundation 1.1, Foundation 1.2)
   - How many pennies are there? (Foundation 1.3)
2. Show the picture of the frogs.
   - Count the frogs. (Foundation 1.1, Foundation 1.2)
   - How many frogs are there? (Foundation 1.3)

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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 California*.

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 2.1 million students.

4,025 CALIFORNIA SCHOOLS using Great Minds curriculum since 2016

▲2,120 IN 2024

3,500 COACHING SESSIONS using Great Minds curriculum since 2016

▲650 IN 2024

1.1 MILLION STUDENTS Impacted by Great Minds

▲3,300 IN 2024

▲116 IN 2024

273 CALIFORNIA DISTRICTS using Great Minds curriculum since 2016

21,000 HOURS OF LEARNING using Great Minds curriculum since 2016

Inside *Eureka Math² California* Components

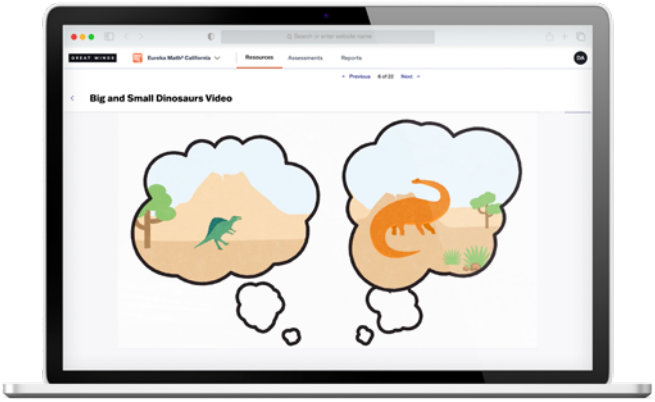


Teach

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 and Differentiation supports

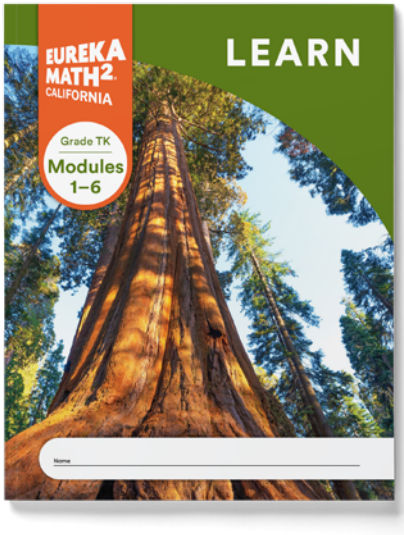


Teacher Digital

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.

- TK 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 California 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 California brings this to life through

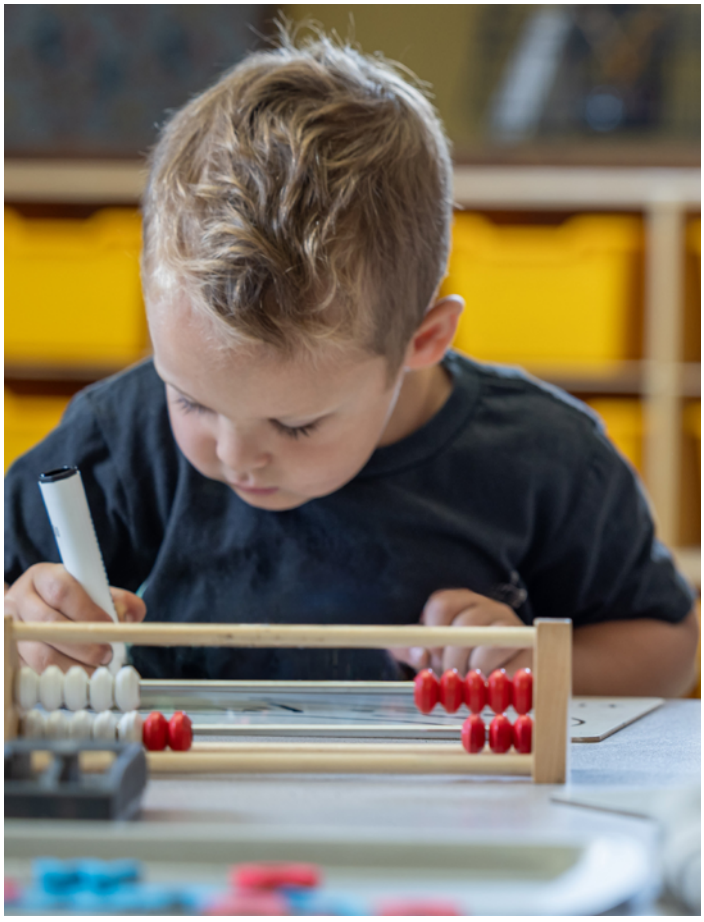
coherence
that makes learning stick,

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® CALIFORNIA

To learn more, visit
greatminds.org/math/eurekamathsquared/california

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