EUREKA MATH™

GREAT MINDS

ABOUT *EUREKA MATH*

Created by the nonprofit Great Minds, *Eureka Math* helps teachers deliver unparalleled math instruction that provides students with a deep understanding and fluency in math. Crafted by teachers and math scholars, the curriculum carefully sequences the mathematical progressions to maximize coherence from Prekindergarten through Precalculus—a principle tested and proven to be essential in students' mastery of math.

Teachers and students using *Eureka Math* find the trademark "Aha!" moments in *Eureka Math* to be a source of joy and inspiration, lesson after lesson, year after year.

ALIGNED

Eureka Math is the only curriculum found by EdReports.org to align fully with the Common Core State Standards for Mathematics for all grades, Kindergarten through Grade 8. Great Minds offers detailed analyses which demonstrate how each grade of *Eureka Math* aligns with specific state standards. Access these free alignment studies at greatminds.org/state-studies.

DATA

Schools and districts nationwide are experiencing student growth and impressive test scores after using *Eureka Math*. See their stories and data at greatminds.org/data.

FULL SUITE OF RESOURCES

As a nonprofit, Great Minds offers the *Eureka Math* curriculum as PDF downloads for free, noncommercial use. Access the free PDFs at greatminds.org/math/curriculum.

The teacher–writers who created the curriculum have also developed essential resources, available only from Great Minds, including the following:

- Printed material in English and Spanish
- Digital resources
- Professional development
- Classroom tools and manipulatives
- Teacher support materials
- Parent resources

GRADE K MATHEMATICS

The majority of the Grade K Minnesota Academic Standards in Mathematics are fully covered by the Grade K *Eureka Math* curriculum. The areas where the Grade K Minnesota Academic Standards in Mathematics and Grade K *Eureka Math* do not align will require the use of *Eureka Math* content from another grade level or supplemental materials. A detailed analysis of alignment is provided in the table below. With strategic placement of supplemental materials, *Eureka Math* can ensure students are successful in achieving the proficiencies of the Minnesota Academic Standards in Mathematics while still benefiting from the coherence and rigor of *Eureka Math*.

INDICATORS

- Green indicates that the Minnesota standard is fully addressed in *Eureka Math*.
- Yellow indicates that the Minnesota standard may not be completely addressed in *Eureka Math*.
- Red indicates that the Minnesota standard is not addressed in *Eureka Math*.
- Blue indicates there is a discrepancy between the grade level at which this standard is addressed in the Minnesota standards and in *Eureka Math*.

Strand	Academic Standards	Aligned Components of *Eureka Math*
Number & Operation	**Standard: Understand the relationship between quantities and whole numbers up to 31.**	
	K.1.1.1 Recognize that a number can be used to represent how many objects are in a set or to represent the position of an object in a sequence.	GK M1: Numbers to 10 GK M5: Numbers 10–20 and Counting to 100
	K.1.1.2 Read, write, and represent whole numbers from 0 to at least 31. Representations may include numerals, pictures, real objects and picture graphs, spoken words, and manipulatives such as connecting cubes.	GK M1: Numbers to 10 GK M5 Topic B: Compose Numbers 11–20 from 10 Ones and Some Ones; Represent and Write Teen Numbers GK M5 Topic C: Decompose Numbers 11–20, and Count to Answer "How Many?" Questions in Varied Configurations G1 M4 Topic A: Tens and Ones
	K.1.1.3 Count, with and without objects, forward and backward to at least 20.	GK M1: Numbers to 10 GK M5 Topic A: Count 10 Ones and Some Ones GK M5 Lesson 13: Show, count, and write to answer *how many* questions in linear and array configurations. GK M5 Lesson 14: Show, count, and write to answer *how many* questions with up to 20 objects in circular configurations. GK M5 Topic D: Extend the Say Ten and Regular Count Sequence to 100

Strand	Academic Standards	Aligned Components of *Eureka Math*
	K.1.1.4 Find a number that is 1 more or 1 less than a given number.	GK M1 Topic G: *One More* with Numbers 0–10 GK M1 Topic H: *One Less* with Numbers 0–10
	K.1.1.5 Compare and order whole numbers, with and without objects, from 0 to 20.	GK M1: Numbers to 10 GK M3 Topic F: Comparison of Sets Within 10 GK M3 Topic G: Comparison of Numerals GK M5 Topic A: Count 10 Ones and Some Ones GK M5 Lesson 22: Decompose teen numbers as 10 ones and some ones; compare *some ones* to compare the teen numbers. G1 M4 Topic B: Comparison of Pairs of Two-Digit Numbers G1 M6 Lesson 6: Use the symbols >, =, and < to compare quantities and numerals to 100.
	Standard: Use objects and pictures to represent situations involving combining and separating.	
	K.1.2.1 Use objects and draw pictures to find the sums and differences of numbers between 0 and 10.	GK M4: Number Pairs, Addition and Subtraction to 10

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	K.1.2.2 Compose and decompose numbers up to 10 with objects and pictures.	GK M1 Topic C: Numbers to 5 in Different Configurations, Math Drawings, and Expressions GK M1 Lesson 14: Write numerals 1–3. Represent decompositions with materials, drawings, and equations, 3 = 2 + 1 and 3 = 1 + 2. GK M1 Lesson 16: Write numerals 1–5 in order. Answer and make drawings of decompositions with totals of 4 and 5 without equations. GK M3 Lesson 7: Compare objects using *the same as*. GK M4: Number Pairs, Addition and Subtraction to 10
Algebra	**Standard: Recognize, create, complete, and extend patterns.**	
	K.2.1.1 Identify, create, complete, and extend simple patterns using shape, color, size, number, sounds and movements. Patterns may be repeating, growing or shrinking such as ABB, ABB, ABB or ●, ●●, ●●●.	*Eureka Math* does not address these types of patterns.
Geometry & Measurement	**Standard: Recognize and sort basic two- and three-dimensional shapes; use them to model real-world objects.**	
	K.3.1.1 Recognize basic two- and three-dimensional shapes such as squares, circles, triangles, rectangles, trapezoids, hexagons, cubes, cones, cylinders and spheres.	GK M2: Two-Dimensional and Three-Dimensional Shapes GK M6: Analyzing, Comparing, and Composing Shapes G1 M5 Topic A: Attributes of Shapes

Strand	Academic Standards	Aligned Components of *Eureka Math*
	K.3.1.2 Sort objects using characteristics such as shape, size, color, and thickness.	GK M1 Topic A: Attributes of Two Related Objects GK M1 Topic B: Classify to Make Categories and Count GK M2 Topic C: Two-Dimensional and Three-Dimensional Shapes
	K.3.1.3 Use basic shapes and spatial reasoning to model objects in the real-world.	GK M2: Two-Dimensional and Three-Dimensional Shapes GK M6: Analyzing, Comparing, and Composing Shapes
	Standard: Compare and order objects according to location and measurable attributes.	
	K.3.2.1 Use words to compare objects according to length, size, weight and position.	GK M2 Lesson 5: Describe and communicate positions of all flat shapes using the words *above, below, beside, in front of, next to,* and *behind.* GK M2 Lesson 8: Describe and communicate positions of all solid shapes using the words *above, below, beside, in front of, next to,* and *behind.* GK M3: Comparison of Length, Weight, Capacity, and Numbers to 10
	K.3.2.2 Order 2 or 3 objects using measurable attributes, such as length and weight.	GK M3: Comparison of Length, Weight, Capacity, and Numbers to 10