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

Minnesota Academic Standards in Mathematics Correlation to *Eureka Math*™

GRADE 2 MATHEMATICS

The majority of the Grade 2 Minnesota Academic Standards in Mathematics are fully covered by the Grade 2 *Eureka Math* curriculum. The areas where the Grade 2 Minnesota Academic Standards in Mathematics and Grade 2 *Eureka Math* do not align will require the use of *Eureka Math* content from other grade levels. A detailed analysis of alignment is provided in the table below.

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: Compare and represent whole numbers up to 1,000 with an emphasis on place value and equality.**	
	2.1.1.1 Read, write, and represent whole numbers up to 1,000. Representations may include numerals, addition, subtraction, multiplication, words, pictures, tally marks, number lines, and manipulatives, such as bundles of sticks and base 10 blocks.	G2 M1: Sums and Differences to 100 G2 M2 Topic D: Relate Addition and Subtraction to Length G2 M3: Place Value, Counting, and Comparison of Numbers to 1,000 G2 M5: Addition and Subtraction Within 1,000 with Word Problems to 100 G2 M6: Foundations of Multiplication and Division
	2.1.1.2 Use place value to describe whole numbers between 10 and 1,000 in terms of hundreds, tens, and ones. Know that 100 is 10 tens, and 1,000 is 10 hundreds.	G2 M3: Place Value, Counting, and Comparison of Numbers to 1,000
	2.1.1.3 Find 10 more or 10 less than a given three-digit number. Find 100 more or 100 less than a given three-digit number.	G2 M3 Topic G: Finding 1, 10, and 100 More or Less than a Number G2 M4 Topic A: Sums and Differences Within 100 G2 M4 Lesson 17: Use mental strategies to relate compositions of 10 tens as 1 hundred to 10 ones as 1 ten. G2 M5 Topic A: Strategies for Adding and Subtracting Within 1,000

Strand	Academic Standards	Aligned Components of *Eureka Math*
	2.1.1.4 Round numbers up to the nearest 10 and 100 and round numbers down to the nearest 10 and 100.	G3 M2 Topic C: Rounding to the Nearest Ten and Hundred G3 M2 Lesson 17: Estimate sums by rounding and apply to solve measurement word problems. G3 M2 Topic E: Two- and Three-Digit Measurement Subtraction Using the Standard Algorithm
	2.1.1.5 Compare and order whole numbers up to 1,000.	G2 M3 Topic F: Comparing Two Three-Digit Numbers
	Standard: Demonstrate mastery of addition and subtraction basic facts; add and subtract one- and two-digit numbers in real-world and mathematical problems.	
	2.1.2.1 Use strategies to generate addition and subtraction facts including making tens, fact families, doubles plus or minus one, counting on, counting back, and the commutative and associative properties. Use the relationship between addition and subtraction to generate basic facts.	G2 M1 Topic A: Foundations for Fluency with Sums and Differences Within 100 G2 M1 Lesson 5: Make a ten to add within 100. G2 M1 Lesson 8: Take from 10 within 100. G2 M4 Lesson 31: Solve two-step word problems within 100. G2 M6 Lesson 9: Solve word problems involving addition of equal groups in rows and columns.
	2.1.2.2 Demonstrate fluency with basic addition facts and related subtraction facts.	G2 M1: Sums and Differences to 100 G2 M4 Topic A: Sums and Differences Within 100 G2 M7 Topic B: Problem Solving with Coins and Bills

Strand	Academic Standards	Aligned Components of *Eureka Math*
	2.1.2.3 Estimate sums and differences up to 100.	G2 M2 Lesson 5: Develop estimation strategies by applying prior knowledge of length and using mental benchmarks. G2 M7 Lesson 17: Develop estimation strategies by applying prior knowledge of length and using mental benchmarks. G3 M2 Lesson 17: Estimate sums by rounding and apply to solve measurement word problems. G3 M2 Lesson 20: Estimate differences by rounding and apply to solve measurement word problems. G3 M2 Lesson 21: Estimate sums and differences of measurements by rounding, and then solve mixed word problems.
	2.1.2.4 Use mental strategies and algorithms based on knowledge of place value to add and subtract two-digit numbers. Strategies may include decomposition, expanded notation, and partial sums and differences.	G2 M4: Addition and Subtraction Within 200 with Word Problems to 100 G2 M5: Addition and Subtraction Within 1,000 with Word Problems to 100

Strand	Academic Standards	Aligned Components of *Eureka Math*
	2.1.2.5 Solve real-world and mathematical addition and subtraction problems involving whole numbers with up to 2 digits.	G2 M1 Topic A: Foundations for Fluency with Sums and Differences Within 100 G2 M1 Lesson 5: Make a ten to add within 100. G2 M1 Lesson 8: Take from 10 within 100. G2 M4 Lesson 31: Solve two-step word problems within 100. G2 M6 Lesson 9: Solve word problems involving addition of equal groups in rows and columns.
	2.1.2.6 Use addition and subtraction to create and obtain information from tables, bar graphs, and tally charts.	G2 M2 Topic D: Relate Addition and Subtraction to Length G2 M7 Lesson 20: Solve two-digit addition and subtraction word problems involving length by using tape diagrams and writing equations to represent the problem.
Algebra	**Standard: Recognize, create, describe, and use patterns and rules to solve real-world and mathematical problems.**	
	2.2.1.1 Identify, create, and describe simple number patterns involving repeated addition or subtraction, skip counting, and arrays of objects such as counters or tiles. Use patterns to solve problems in various contexts.	G2 M6: Foundations of Multiplication and Division

Strand	Academic Standards	Aligned Components of *Eureka Math*
	Standard: Use number sentences involving addition, subtraction, and unknowns to represent and solve real-world and mathematical problems; create real-world situations corresponding to number sentences.	
	2.2.2.1 Understand how to interpret number sentences involving addition, subtraction, and unknowns represented by letters. Use objects and number lines and create real-world situations to represent number sentences.	G3 M3 Lesson 18: Solve two-step word problems involving all four operations and assess the reasonableness of solutions. G3 M7: Geometry and Measurement Word Problems
	2.2.2.2 Use number sentences involving addition, subtraction, and unknowns to represent given problem situations. Use number sense and properties of addition and subtraction to find values for the unknowns that make the number sentences true.	G3 M3 Lesson 18: Solve two-step word problems involving all four operations and assess the reasonableness of solutions. G3 M7: Geometry and Measurement Word Problems

Strand	Academic Standards	Aligned Components of *Eureka Math*
Geometry & Measurement	**Standard: Identify, describe, and compare basic shapes according to their geometric attributes.**	
	2.3.1.1 Describe, compare, and classify two- and three-dimensional figures according to number and shape of faces, and the number of sides, edges, and vertices (corners).	G1 M5 Topic A: Attributes of Shapes G2 M8 Topic A: Attributes of Geometric Shapes
	2.3.1.2 Identify and name basic two- and three-dimensional shapes, such as squares, circles, triangles, rectangles, trapezoids, hexagons, cubes, rectangular prisms, cones, cylinders, and spheres.	G1 M5 Topic A: Attributes of Shapes G2 M8 Topic A: Attributes of Geometric Shapes
	Standard: Understand length as a measurable attribute; use tools to measure length.	
	2.3.2.1 Understand the relationship between the size of the unit of measurement and the number of units needed to measure the length of an object.	G2 M2 Topic C: Measure and Compare Lengths Using Different Length Units G2 M7 Lesson 18: Measure an object twice using different length units and compare; relate measurement to unit size.
	2.3.2.2 Demonstrate an understanding of the relationship between length and the numbers on a ruler by using a ruler to measure lengths to the nearest centimeter or inch.	G2 M2 Topic C: Measure and Compare Lengths Using Different Length Units G2 M2 Lesson 9: Measure lengths of string using measurement tools, and use tape diagrams to represent and compare lengths. G2 M7 Lesson 19: Measure to compare the differences in lengths using inches, feet, and yards.

Strand	Academic Standards		Aligned Components of *Eureka Math*
	Standard: Use time and money in real-world and mathematical situations.		
	2.3.3.1 Tell time to the quarter-hour and distinguish between a.m. and p.m.		G2 M8 Topic D: Application of Fractions to Tell Time
	2.3.3.2 Identify pennies, nickels, dimes, and quarters. Find the value of a group of coins and determine combinations of coins that equal a given amount.		G2 M7 Topic B: Problem Solving with Coins and Bills