Grade 1 | Georgia State Standards for Mathematics Correlation to *Eureka Math²*®

When the original *Eureka Math*® curriculum was released, it quickly became the most widely used K–5 mathematics curriculum in the country. Now, the Great Minds® teacher–writers have created *Eureka Math²*®, a groundbreaking new curriculum that helps teachers deliver exponentially better math instruction while still providing students with the same deep understanding of and fluency in math. *Eureka Math²* carefully sequences mathematical content to maximize vertical alignment—a principle tested and proven to be essential in students' mastery of math—from kindergarten through high school.

While this innovative new curriculum includes all the trademark *Eureka Math* aha moments that have been delighting students and teachers for years, it also boasts these exciting new features:

Teachability

Eureka Math² employs streamlined materials that allow teachers to plan more efficiently and focus their energy on delivering high-quality instruction that meets the individual needs of their students. Differentiation suggestions, slide decks, digital interactives, and multiple forms of assessment are just a few of the resources built right into the teacher materials.

Accessibility

Eureka Math² incorporates Universal Design for Learning principles so all learners can access the mathematics and take on challenging math concepts. Student supports are built into the instructional design and are clearly identified in the *Teach* book. Further, the curriculum carries a focus on readability. By eliminating unnecessary words and using simple, clear sentences, the *Eureka Math²* teacher–writers have created one of the most readable mathematics curricula on the market. The curriculum's readability and accessibility help all students see themselves as mathematical thinkers and doers who are fully capable of owning their mathematics learning.

Digital Engagement

The digital elements of *Eureka Math²* add to students' engagement with the math. The curriculum provides teachers with digital slides for each lesson. In addition, each grade level includes wordless videos that spark students' interest and curiosity. Students at all levels work through mathematical explorations that help lead to their own mathematical discoveries. Digital lessons and videos provide opportunities for students to wonder, explore, and make sense of mathematics, which contributes to the development of a strong, positive mathematical identity.

Standards for Mathematical Practice	Aligned Components of *Eureka Math²*
MP.1 Make sense of problems and persevere in solving them.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.2 Reason abstractly and quantitatively.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.3 Construct viable arguments and critique the reasoning of others.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.4 Model with mathematics.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.5 Use appropriate tools strategically.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.6 Attend to precision.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.7 Look for and make use of structure.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.8 Look for and express regularity in repeated reasoning.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.

Numerical Reasoning

1.NR.1 Extend the count sequence to 120. Read, write, and represent numerical values to 120 and compare numerical values to 100.

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1.NR.1.1 Count within 120, forward and backward, starting at any number. In this range, read and write numerals and represent a number of objects with a written numeral.	1 M3 Lesson 15: Count and record a collection of objects. 1 M3 Lesson 16: Identify ten as a unit. 1 M5 Topic A: Grouping Units in Tens and Ones 1 M6 Topic D: Count and Represent Numbers Beyond 100
1.NR.1.2 Explain that the two digits of a 2-digit number represent the amounts of tens and ones.	1 M1 Lesson 12: Count on from 10 to find an unknown total. 1 M3 Topic D: Reason about Ten as a Unit to Add or Subtract 1 M3 Lesson 21: Take from ten to subtract from a teen number, part 1. 1 M3 Lesson 22: Take from ten to subtract from a teen number, part 2. 1 M4: Comparison and Composition of Length Measurements 1 M5 Topic A: Grouping Units in Tens and Ones 1 M5 Lesson 8: Use place value reasoning to write and compare 2 two-digit numbers. 1 M5 Lesson 21: Use varied strategies to add 2 two-digit addends.
1.NR.1.3 Compare and order whole numbers up to 100 using concrete models, drawings, and the symbols >, =, and <.	1 M1 Topic A: Count and Compare with Data 1 M4 Lesson 5: Measure and compare lengths. 1 M4 Lesson 6: Measure and order lengths. 1 M5 Topic B: Use Place Value to Compare

Numerical Reasoning

1.NR.2 Explain the relationship between addition and subtraction and apply the properties of operations to solve real-life addition and subtraction problems within 20.

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1.NR.2.1 Use a variety of strategies to solve addition and subtraction problems within 20.	1 M2: Addition and Subtraction Relationships 1 M3 Topic C: Make Easier Addition Problems with a Linear Model 1 M3 Lesson 19: Solve *take from with change unknown* problems with totals in the teens. 1 M3 Topic E: Make Easier Problems to Subtract 1 M4 Topic C: Comparison Word Problems with Measurement 1 M6 Topic E: Deepening Problem Solving 1 M6 Lesson 29: Add tens to make 100.
1.NR.2.2 Use pictures, drawings, and equations to develop strategies for addition and subtraction within 20 by exploring strings of related problems.	1 M2: Addition and Subtraction Relationships 1 M3 Topic C: Make Easier Addition Problems with a Linear Model 1 M3 Lesson 19: Solve *take from with change unknown* problems with totals in the teens. 1 M3 Topic E: Make Easier Problems to Subtract 1 M4 Topic C: Comparison Word Problems with Measurement 1 M6 Topic E: Deepening Problem Solving 1 M6 Lesson 29: Add tens to make 100.
1.NR.2.3 Recognize the inverse relationship between subtraction and addition within 20 and use this inverse relationship to solve authentic problems.	1 M1 Lesson 17: Add 0 and 1 to any number. 1 M1 Topic D: Make the Same Total in Varied Ways 1 M2 Topic A: Reason About *Take From* Situations 1 M2 Lesson 7: Count on or count back to solve related addition and subtraction problems. 1 M2 Lesson 17: Use related addition facts to subtract from 10. 1 M2 Lesson 18: Use related addition facts to subtract. 1 M3: Properties of Operations to Make Easier Problems

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1.NR.2.4 Fluently add and subtract within 10 using a variety of strategies.	1 M1 Lesson 17: Add 0 and 1 to any number. 1 M1 Topic D: Make the Same Total in Varied Ways 1 M2 Topic A: Reason About *Take From* Situations 1 M2 Lesson 7: Count on or count back to solve related addition and subtraction problems. 1 M2 Lesson 17: Use related addition facts to subtract from 10. 1 M2 Lesson 18: Use related addition facts to subtract. 1 M3 Topic A: Make Easier Problems with Three Addends 1 M3 Topic B: Make Easier Problems to Add
1.NR.2.5 Use the meaning of the equal sign to determine whether equations involving addition and subtraction are true or false.	1 M1 Lesson 15: Use the commutative property to count on from the larger addend. 1 M1 Lesson 18: Determine whether number sentences are true or false. 1 M1 Lesson 19: Reason about the meaning of the equal sign. 1 M1 Lesson 24: Use known facts to make easier problems. 1 M2 Lesson 19: Determine the value of the unknown in various positions. 1 M2 Lesson 20: Add or subtract to make groups equal. 1 M5 Lesson 18: Determine if number sentences involving addition and subtraction are true or false. 1 M5 Topic E: Addition of Two-Digit Numbers
1.NR.2.6 Determine the unknown whole number in an addition or subtraction equation relating to three whole numbers.	1 M3 Topic A: Make Easier Problems with Three Addends 1 M3 Topic C: Make Easier Addition Problems with a Linear Model 1 M3 Lesson 26: Pose and solve varied word problems.

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1.NR.2.7 Apply properties of operations as strategies to solve addition and subtraction problem situations within 20.	1 M1 Lesson 9: Count on from both parts and record part–total relationships. 1 M1 Topic C: Count On to Add 1 M1 Lesson 18: Determine whether number sentences are true or false. 1 M3: Properties of Operations to Make Easier Problems

Patterning and Algebraic Reasoning

1.PAR.3 Identify, describe, extend, and create repeating patterns, growing patterns, and shrinking patterns found in real-life situations.

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1.PAR.3.1 Investigate, create, and make predictions about repeating patterns with a core of up to 3 elements resulting from repeating an operation, as a series of shapes, or a number string.	K M5 Topic D: Make Use of Structure 1 M6 Lesson 18: Count up and down across 100. 2 M6 Lesson 15: Pair objects and skip-count to determine whether a number is even or odd.
1.PAR.3.2 Identify, describe, and create growing, shrinking, and repeating patterns based on the repeated addition or subtraction of 1s, 2s, 5s, and 10s.	1 M4 Lesson 14: Measure to find patterns. 1 M5 Lesson 6: Add 10 or take 10 from a two-digit number. 1 M5 Lesson 15: Count on and back by tens to add and subtract. 1 M6 Lesson 17: Read, write, and represent numbers greater than 100. 1 M6 Lesson 18: Count up and down across 100. 2 M6 Lesson 15: Pair objects and skip-count to determine whether a number is even or odd. *Choral counting routines used in fluency activities embed patterns by using addition. Supplemental material is necessary to address growing patterns of 2s and 5s.*

Geometric and Spatial Reasoning

1.GSR.4 Compose shapes, analyze the attributes of shapes, and relate their parts to the whole.

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1.GSR.4.1 Identify common two-dimensional shapes and three-dimensional figures, sort and classify them by their attributes and build and draw shapes that possess defining attributes.	1 M6 Topic A: Attributes of Shapes 1 M6 Lesson 7: Create new composite shapes by adding a shape.
1.GSR.4.2 Compose two-dimensional shapes (rectangles, squares, triangles, half-circles, and quarter-circles) and three-dimensional figures (cubes, rectangular prisms, cones, and cylinders) to create a shape formed of two or more common shapes and compose new shapes from the composite shape.	1 M6 Topic B: Composition of Shapes 1 M6 Lesson 10: Reason about equal and not equal shares.
1.GSR.4.3 Partition circles and rectangles into two and four equal shares.	1 M6 Topic C: Halves and Fourths

Numerical Reasoning

1.NR.5 Use concrete models, the base ten structure, and properties of operations to add and subtract within 100.

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1.NR.5.1 Use a variety of strategies to solve applicable, mathematical addition and subtraction problems with one- and two-digit whole numbers.	1 M5: Place Value Concepts to Compare, Add, and Subtract 1 M6 Topic F: Extending Addition to 100
1.NR.5.2 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.	1 M5 Lesson 5: Reason about equivalent representations of a number. 1 M5 Lesson 20: Add ones and multiples of ten to any number.
1.NR.5.3 Add and subtract multiples of 10 within 100.	1 M5 Topic D: Addition and Subtraction of Tens

Measurement and Data Reasoning

1.MDR.6 Use appropriate tools to measure, order, and compare intervals of length and time, as well as denominations of money to solve real-life, mathematical problems and answer relevant questions.

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1.MDR.6.1 Estimate, measure, and record lengths of objects using non-standard units, and compare and order up to three objects using the recorded measurements. Describe the objects compared.	1 M4: Comparison and Composition of Length Measurements
1.MDR.6.2 Tell and write time in hours and half-hours using analog and digital clocks, and measure elapsed time to the hour on the hour using a predetermined number line.	1 M5 Lesson 1: Tell time to the hour and half hour by using digital and analog clocks. 1 M6 Lesson 14: Tell time to the half hour with the term *half past*. 1 M6 Lesson 15: Reason about the location of the hour hand to tell time.
1.MDR.6.3 Identify the value of quarters and compare the values of pennies, nickels, dimes, and quarters.	1 M2 Lesson 7: Count on or count back to solve related addition and subtraction problems. 1 M2 Lesson 8: Interpret and find an unknown change. 1 M2 Lesson 12: Represent and find an unknown subtrahend in equations. 1 M2 Lesson 21: Represent and solve *compare with difference unknown* problems, part 1. 1 M5 Lesson 4: Represent a number in multiple ways by trading 10 ones for a ten. 1 M5 Lesson 5: Reason about equivalent representations of a number. 1 M5 Lesson 17: Use tens to find an unknown part. 2 M5 Lesson 1: Organize, count, and represent a collection of coins. 2 M5 Lesson 2: Use the fewest number of coins to make a given value. *Choral response fluencies for coin identification are found in 2 Module 4.*

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1.MDR.6.4 Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to compare and order whole numbers.	1 M1 Topic A: Count and Compare with Data 1 M2 Lesson 23: Compare categories in a graph to figure out how many more.