EUREKA MATH²...

Grade 1 | Massachusetts Curriculum Framework for Mathematics Correlation to *Eureka Math*^{2TM}

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 Math*^{2TM}, 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 Math*² 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* and moments that have been delighting students and teachers for years, it also boasts these exciting new features:

Teachability

*Eureka Math*² employs streamlined materials that allow teachers to plan more efficiently and focus their energy on delivering highquality 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 Math*² 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 Math*² 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 Math*² 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.

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

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Operations and Algebraic Thinking

1.OA.A Represent and solve problems involving addition and subtraction.

Massachusetts Curriculum Framework for Mathematics

Aligned Components of Eureka Math²

1.OA.A.1 Use addition and subtraction within 20 to solve word problems	1 M2 Lesson 1: Represent <i>result unknown</i> problems and record as addition or subtraction number sentences.
	1 M2 Topic B: Relate and Distinguish Addition and Subtraction
involving situations of adding to, taking	1 M2 Lesson 8: Interpret and find an unknown change.
from, putting together, taking apart, and comparing, with unknowns in all	1 M2 Lesson 9: Represent and solve add to with change unknown problems.
positions, e.g., by using objects, drawings,	1 M2 Lesson 11: Represent and solve take from with change unknown problems.
and equations (number sentences) with a symbol for the unknown number	1 M2 Lesson 13: Represent and solve add to and take from with change unknown problems.
to represent the problem.	1 M2 Lesson 14: Represent and solve put together/take apart with addend unknown problems.
	1 M2 Lesson 21: Represent and solve compare with difference unknown problems, part 1.
	1 M2 Lesson 22: Represent and solve compare with difference unknown problems, part 2.
	1 M3 Lesson 11: Represent and compare related situation equations, part 1.
	1 M3 Lesson 12: Represent and compare related situation equations, part 2.
	1 M3 Lesson 19: Solve take from with change unknown problems with totals in the teens.
	1 M3 Lesson 26: Pose and solve varied word problems.
	1 M4 Lesson 10: Compare to find how much longer.
	1 M4 Lesson 11: Compare to find how much shorter.
	1 M4 Lesson 12: Find the unknown longer length.
	1 M4 Lesson 13: Find the unknown shorter length.
	1 M6 Topic E: Deepening Problem Solving

Massachusetts Curriculum Framework for Mathematics	Aligned Components of <i>Eureka Math</i> ²
1.OA.A.2	1 M3 Lesson 2: Make ten with three addends.
Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	1 M3 Lesson 3: Represent and solve three-addend word problems. 1 M3 Lesson 11: Represent and compare related situation equations, part 1. 1 M3 Lesson 12: Represent and compare related situation equations, part 2. 1 M3 Lesson 26: Pose and solve varied word problems.

Operations and Algebraic Thinking

1.OA.B Understand and apply properties of operations and the relationship between addition and subtraction.

Massachusetts Curriculum Framework for Mathematics	Aligned Components of Eureka Math ²
1.OA.B.3	1 M1 Lesson 9: Count on from both parts and record part-total relationships.
Apply properties of operations to add.	1 M1 Lesson 15: Use the commutative property to count on from the larger addend.
	1 M1 Lesson 16: Use the commutative property to find larger totals.
	1 M3 Topic A: Make Easier Problems with Three Addends
	1 M3 Topic B: Make Easier Problems to Add
	1 M3 Topic C: Make Easier Addition Problems with a Linear Model
	1 M3 Lesson 26: Pose and solve varied word problems.
1.OA.B.4	1 M2 Lesson 17: Use related addition facts to subtract from 10.
Understand subtraction as an unknown-addend problem.	1 M2 Lesson 18: Use related addition facts to subtract.
	1 M2 Lesson 19: Determine the value of the unknown in various positions.

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Operations and Algebraic Thinking

Massachusetts Curriculum

1.OA.C Add and subtract within 20.

Framework for Mathematics	Aligned Components of <i>Eureka Math</i> ²
1.OA.C.5	1 M1 Topic B: Count On from a Visible Part
Relate counting to addition and	1 M1 Lesson 13: Count on from an addend in add to with result unknown situations.
subtraction (e.g., by counting	1 M1 Lesson 14: Count on to find the total of an addition expression.
on 2 to add 2).	1 M1 Lesson 17: Add 0 and 1 to any number.
	1 M1 Lesson 23: Find the totals of doubles $+1$ facts.
	1 M1 Lesson 24: Use known facts to make easier problems.
	1 M2 Lesson 2: Subtract all or subtract 0.
	1 M2 Lesson 3: Subtract 1 or subtract 1 less than the total.
	1 M2 Lesson 4: Use fingers to subtract 4, 5, and 6 efficiently.
	1 M2 Lesson 7: Count on or count back to solve related addition and subtraction problems.
	1 M2 Lesson 16: Compare the efficiency of counting on and counting back to subtract.
1.OA.C.6	1 M1 Lesson 14: Count on to find the total of an addition expression.
Add and subtract within 20,	1 M1 Lesson 17: Add 0 and 1 to any number.
demonstrating fluency for addition and subtraction within 10. Use mental strategies such as counting on; making 10	1 M1 Lesson 20: Find all two-part expressions equal to 6.
	1 M1 Lesson 21: Find all two-part expressions equal to 7 and 8.
(e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$);	1 M1 Lesson 22: Find all two-part expressions equal to 9 and 10.
decomposing a number leading to a 10 (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$); using the relationship between addition and subtraction (e.g., knowing that $8 + 4 = 12$, one knows $12 - 8 = 4$); and creating equivalent but easier or known sums (e.g., adding $6 + 7$ by creating the known	1 M1 Lesson 23: Find the totals of doubles $+1$ facts.
	1 M1 Lesson 24: Use known facts to make easier problems.
	1 M2 Lesson 2: Subtract all or subtract 0.
	1 M2 Lesson 3: Subtract 1 or subtract 1 less than the total.
	1 M2 Lesson 4: Use fingers to subtract 4, 5, and 6 efficiently.
equivalent $6 + 6 + 1 = 12 + 1 = 13$).	1 M2 Lesson 7: Count on or count back to solve related addition and subtraction problems.

Aligned Components of Eureka Math²

Massachusetts Curriculum Framework for Mathematics	Aligned Components of <i>Eureka Math</i> ²
1.OA.C.6 continued	1 M2 Lesson 16: Compare the efficiency of counting on and counting back to subtract.
	1 M3 Lesson 1: Group to make ten when there are three parts.
	1 M3 Lesson 4: Use properties of addition to make three-addend expressions easier.
	1 M3 Topic B: Make Easier Problems to Add
	1 M3 Lesson 13: Count on to make ten within 20.
	1 M3 Lesson 14: Count on to make the next ten within 100.
	1 M3 Lesson 17: Add a two-digit number and a one-digit number.
	1 M3 Lesson 18: Subtract a one-digit number from a two-digit number.
	1 M3 Lesson 20: Use strategies to subtract from a teen number.
	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 M3 Lesson 23: Subtract by counting on.
	1 M3 Lesson 24: Decompose the subtrahend to count back.
	1 M3 Lesson 25: Choose a strategy to make an easier problem.

Operations and Algebraic Thinking

1.OA.D Work with addition and subtraction equations.

Massachusetts Curriculum Framework for Mathematics	Aligned Components of Eureka Math ²
1.OA.D.7	1 M1 Lesson 18: Determine whether number sentences are true or false.
Understand the meaning of the equal	1 M1 Lesson 19: Reason about the meaning of the equal sign.
sign, and determine if equations involving addition and subtraction are true or false.	1 M1 Lesson 24: Use known facts to make easier problems.
addition and subtraction are true of false.	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 Lesson 22: Decompose both addends and add like units.
	1 M5 Lesson 23: Decompose an addend and add tens first.
	1 M5 Lesson 24: Decompose an addend to make the next ten.
	1 M5 Lesson 25: Compare equivalent expressions used to solve two-digit addition equations.
1.OA.D.8	1 M2 Lesson 10: Represent and find an unknown addend in equations.
Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.	1 M2 Lesson 12: Represent and find an unknown subtrahend in equations.
	1 M2 Lesson 13: Represent and solve add to and take from with change unknown problems.
	1 M2 Lesson 15: Relate counting on and counting back to find an unknown part.
	1 M2 Lesson 19: Determine the value of the unknown in various positions.

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Number and Operations in Base Ten

1.NBT.A Extend the counting sequence.

Massachusetts Curriculum Framework for Mathematics

Aligned Components of Eureka Math²

1.NBT.A.1	1 M3 Lesson 15: Count and record a collection of objects.
Count to 120 , starting at any number	1 M3 Lesson 16: Identify ten as a unit.
less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.	1 M5 Lesson 2: Count a collection and record the total in units of tens and ones.
	1 M5 Lesson 3: Recognize the place value of digits in a two-digit number.
	1 M5 Lesson 5: Reason about equivalent representations of a number.
	1 M6 Topic D: Count and Represent Numbers Beyond 100

Number and Operations in Base Ten

1.NBT.B Understand place value.

Massachusetts Curriculum Framework for Mathematics	Aligned Components of Eureka Math ²
1.NBT.B.2	1 M1 Lesson 12: Count on from 10 to find an unknown total.
Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases:	1 M3 Topic D: Reason about Ten as a Unit to Add or Subtract
	1 M4 Lesson 8: Draw to represent a length measurement.
	1 M4 Lesson 9: Represent a total length as units of tens and ones.
	1 M5 Lesson 2: Count a collection and record the total in units of tens and ones.
	1 M5 Lesson 3: Recognize the place value of digits in a two-digit number.
	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 8: Use place value reasoning to write and compare 2 two-digit numbers.

Massachusetts Curriculum Framework for Mathematics	Aligned Components of <i>Eureka Math</i> ²
1.NBT.B.2.a	1 M3 Lesson 15: Count and record a collection of objects.
$10~{\rm can}~{\rm be}~{\rm thought}~{\rm of}~{\rm as}~{\rm a}~{\rm bundle}$	1 M3 Lesson 16: Identify ten as a unit.
of ten ones-called a "ten."	1 M4 Lesson 8: Draw to represent a length measurement.
	1 M4 Lesson 9: Represent a total length as units of tens and ones.
	1 M5 Lesson 2: Count a collection and record the total in units of tens and ones.
	1 M5 Lesson 3: Recognize the place value of digits in a two-digit number.
	1 M5 Lesson 5: Reason about equivalent representations of a number.
1.NBT.B.2.b	1 M1 Lesson 12: Count on from 10 to find an unknown total.
The numbers from 11 to 19 are composed	1 M3 Lesson 16: Identify ten as a unit.
of a ten and one, two, three, four, five, six,	1 M3 Lesson 17: Add a two-digit number and a one-digit number.
seven, eight, or nine ones.	1 M3 Lesson 18: Subtract a one-digit number from a two-digit number.
	1 M3 Lesson 19: Solve take from with change unknown problems with totals in the teens.
	1 M4 Lesson 8: Draw to represent a length measurement.
	1 M4 Lesson 9: Represent a total length as units of tens and ones.
	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.NBT.B.2.c	1 M3 Lesson 17: Add a two-digit number and a one-digit number.
The numbers 10, 20, 30, 40, 50, 60, 70, 80,	1 M3 Lesson 18: Subtract a one-digit number from a two-digit number.
90 refer to one, two, three, four, five, six,	1 M3 Lesson 19: Solve take from with change unknown problems with totals in the teens.
seven, eight, or nine tens (and 0 ones).	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.

Massachusetts Curriculum Framework for Mathematics	Aligned Components of <i>Eureka Math</i> ²
1.NBT.B.3	1 M1 Lesson 2: Organize and represent data to compare two categories.
Compare two two-digit numbers based	1 M1 Lesson 3: Sort to represent and compare data with three categories.
on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <.	1 M1 Lesson 4: Find the total number of data points and compare categories in a picture graph.
	1 M1 Lesson 6: Use tally marks to represent and compare data.
	1 M4 Lesson 5: Measure and compare lengths.
	1 M5 Topic B: Use Place Value to Compare

Number and Operations in Base Ten

1.NBT.C Use place value understanding and properties of operations to add and subtract.

Massachusetts Curriculum Framework for Mathematics	Aligned Components of Eureka Math ²
1.NBT.C.4	1 M5 Topic C: Addition of One-Digit and Two-Digit Numbers

1.NBT.C.4

Add within 100, including adding 1 M5 Topic D: Addition and Subtraction of Tens a two-digit number and a one-digit 1 M5 Topic E: Addition of Two-Digit Numbers number, and adding a two-digit number 1 M6 Topic F: Extending Addition to 100 and a multiple of 10, using concrete models or drawings, and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.

Framework for Mathematics	Aligned Components of <i>Eureka Math</i> ²
1.NBT.C.5	1 M5 Lesson 6: Add 10 or take 10 from a two-digit number.
Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used. Identify arithmetic patterns of 10 more and 10 less than using strategies based on place value.	
1.NBT.C.6	1 M5 Lesson 15: Count on and back by tens to add and subtract.
Subtract multiples of 10 in the	1 M5 Lesson 16: Use related single-digit facts to add and subtract multiples of ten.
range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences),	1 M5 Lesson 17: Use tens to find an unknown part.
using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 M5 Lesson 18: Determine if number sentences involving addition and subtraction are true or false.

Massachusetts Curriculum

Measurement and Data

1.MD.A Measure lengths indirectly and by iterating length units.

Massachusetts Curriculum Framework for Mathematics	Aligned Components of <i>Eureka Math</i> ²
1.MD.A.1	1 M4 Topic A: Direct and Indirect Length Comparison
Order three objects by length; compare the lengths of two objects indirectly by using a third object.	1 M4 Lesson 5: Measure and compare lengths. 1 M4 Lesson 6: Measure and order lengths.

Massachusetts Curriculum Framework for Mathematics	Aligned Components of <i>Eureka Math</i> ²
1.MD.A.2	1 M4 Topic B: Length Measurement and Comparison
Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps.	1 M4 Lesson 10: Compare to find how much longer. 1 M4 Lesson 11: Compare to find how much shorter. 1 M4 Lesson 14: Measure to find patterns.

Measurement and Data

1.MD.B Tell and write time.

Massachusetts Curriculum Framework for Mathematics	Aligned Components of Eureka Math ²
1.MD.B.3	1 M5 Lesson 1: Tell time to the hour and half hour by using digital and analog clocks.
Tell and write time in hours and half- hours using analog and digital clocks.	1 M6 Lesson 14: Tell time to the half hour with the term <i>half past</i> . 1 M6 Lesson 15: Reason about the location of the hour hand to tell time.

Measurement and Data

1.MD.C Represent and interpret data.

Massachusetts Curriculum Framework for Mathematics	Aligned Components of Eureka Math ²
1.MD.C.4	1 M1 Lesson 2: Organize and represent data to compare two categories.
Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.	 1 M1 Lesson 3: Sort to represent and compare data with three categories. 1 M1 Lesson 4: Find the total number of data points and compare categories in a picture graph. 1 M1 Lesson 5: Organize and represent categorical data. 1 M1 Lesson 6: Use tally marks to represent and compare data. 1 M2 Lesson 23: Compare categories in a graph to figure out how many more.

Measurement and Data

1.MD.D Work with money.

Massachusetts Curriculum Framework for Mathematics	Aligned Components of Eureka Math ²
1.MD.D.5	Supplemental material is necessary to address this standard.
Identify the values of all U.S. coins and know their comparative values (e.g., a dime is of greater value than a nickel). Find equivalent values (e.g., a nickel is equivalent to five pennies). Use appropriate notation (e.g., 69¢). Use the values of coins in the solutions of problems (up to 100¢).	

1 | Massachusetts Curriculum Framework for Mathematics Correlation to Eureka Math²

Geometry

1.G.A Reason with shapes and their attributes.

Massachusetts Curriculum

Framework for Mathematics

Aligned Components of Eureka Math²

1.G.A.1 Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes that possess defining attributes.	1 M6 Topic A: Attributes of Shapes
1.G.A.2 Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.	1 M6 Topic B: Composition of Shapes
1.G.A.3 Partition circles and rectangles into two and four equal shares, describe the shares using the words <i>halves, fourths,</i> and <i>quarters,</i> and use the phrases <i>half of,</i> <i>fourth of,</i> and <i>quarter of.</i> Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.	1 M6 Lesson 10: Reason about equal and not equal shares. 1 M6 Lesson 11: Name equal shares as halves or fourths. 1 M6 Lesson 12: Partition shapes into halves, fourths, and quarters. 1 M6 Lesson 13: Relate the number of equal shares to the size of the shares.