Grade 5 | Florida's Benchmark for Excellent Student Thinking Standards for Mathematics Correlation to *Eureka Math²® Florida B.E.S.T. Edition*

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® Florida B.E.S.T. Edition*, 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 Florida B.E.S.T. Edition* 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 Florida B.E.S.T. Edition 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 Florida B.E.S.T. Edition 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 Florida B.E.S.T. Edition* 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 Florida B.E.S.T. Edition* 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.

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Standards for Mathematical Practice	Aligned Components
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.

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Number Sense and Operations

MA.5.NSO.1 Understand the place value of multi-digit numbers with decimals to the thousandths place.

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MA.5.NSO.1.1 Express how the value of a digit in a multi-digit number with decimals to the thousandths changes if the digit moves one or more places to the left or right.	5 M1 Lesson 1: Relate adjacent place value units by using place value understanding. 5 M1 Lesson 2: Multiply and divide by 10, 100, and $1{,}000$ and identify patterns in the products and quotients. 5 M4 Lesson 1: Model and relate decimal place value units to thousandths. 5 M4 Lesson 5: Relate the values of digits in a decimal number by using place value understanding.
MA.5.NSO.1.2 Read and write multi-digit numbers with decimals to the thousandths using standard form, word form and expanded form.	5 M4 Lesson 2: Represent thousandths as a place value unit. 5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms.
MA.5.NSO.1.3 Compose and decompose multi-digit numbers with decimals to the thousandths in multiple ways using the values of the digits in each place. Demonstrate the compositions or decompositions using objects, drawings and expressions or equations.	5 M4 Lesson 1: Model and relate decimal place value units to thousandths. 5 M4 Lesson 2: Represent thousandths as a place value unit. 5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms. 5 M4 Lesson 4: Compose and decompose decimals to the thousandths in multiple ways.
MA.5.NSO.1.4 Plot, order and compare multi-digit numbers with decimals up to the thousandths.	5 M4 Lesson 7: Compare decimal numbers to the thousandths place.

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MA.5.NSO.1.5 Round multi-digit numbers with decimals to the thousandths to the nearest hundredth, tenth or whole number.	5 M4 Lesson 8: Round decimal numbers to the nearest one, tenth, or hundredth. 5 M4 Lesson 9: Round decimal numbers to any place value unit.

Number Sense and Operations

MA.5.NSO.2 Add, subtract, multiply and divide multi-digit numbers.

Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.NSO.2.1 Multiply multi-digit whole numbers including using a standard algorithm with procedural fluency.	5 M1 Lesson 5: Multiply two- and three-digit numbers by two-digit numbers by using the distributive property. 5 M1 Lesson 6: Multiply two- and three-digit numbers by two-digit numbers by using the standard algorithm. 5 M1 Lesson 7: Multiply three- and four-digit numbers by three-digit numbers by using the standard algorithm. 5 M1 Lesson 8: Multiply two multi-digit numbers by using the standard algorithm.
MA.5.NSO.2.2 Divide multi-digit whole numbers, up to five digits by two digits, including using a standard algorithm with procedural fluency. Represent remainders as fractions.	5 M1 Topic C: Division of Whole Numbers and Interpreting Remainders 5 M1 Topic D: Division of Whole Numbers by Using the Standard Algorithm

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Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.NSO.2.3 Add and subtract multi-digit numbers with decimals to the thousandths, including using a standard algorithm with procedural fluency.	5 M4 Lesson 12: Add multi-digit numbers with decimals to the thousandths by using place value understanding. 5 M4 Lesson 13: Add multi-digit numbers with decimals to the thousandths by using the standard algorithm. 5 M4 Lesson 14: Subtract multi-digit numbers with decimals to the thousandths by using place value understanding. 5 M4 Topic B: Addition and Subtraction of Decimal Numbers
MA.5.NSO.2.4 Explore the multiplication and division of multi-digit numbers with decimals to the hundredths using estimation, rounding and place value.	5 M4 Lesson 6: Multiply and divide decimal numbers by 10, 100, and $1{,}000$. 5 M4 Topic C: Estimation and Multiplication of Decimal Numbers 5 M4 Topic D: Estimation and Division of Decimal Numbers
MA.5.NSO.2.5 Multiply and divide a multi-digit number with decimals to the tenths by one-tenth and one-hundredth with procedural reliability.	5 M4 Lesson 6: Multiply and divide decimal numbers by 10, 100, and $1{,}000$. 5 M4 Lesson 20: Relate decimal-number multiplication to fraction multiplication. 5 M4 Lesson 25: Relate division by 0.1 and 0.01 to division by a unit fraction.

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Algebraic Reasoning

MA.5.AR.1 Solve problems involving the four operations with whole numbers and fractions.

Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.AR.1.1 Solve multi-step real-world problems involving any combination of the four operations with whole numbers, including problems in which remainders must be interpreted within the context.	5 M1 Topic C: Division of Whole Numbers and Interpreting Remainders 5 M1 Lesson 16: Divide multi-digit numbers by using the standard algorithm and represent remainders as fractions. 5 M1 Lesson 17: Solve word problems involving division. 5 M1 Lesson 21: Solve multi-step word problems involving multiplication and division. 5 M1 Lesson 23: Solve multi-step word problems involving the four operations.
MA.5.AR.1.2 Solve real-world problems involving the addition, subtraction or multiplication of fractions, including mixed numbers and fractions greater than 1.	5 M2 Lesson 9: Solve word problems involving addition and subtraction of fractions. 5 M2 Lesson 11: Add mixed numbers with unrelated units. 5 M2 Lesson 14: Subtract mixed numbers from mixed numbers with unrelated units. 5 M2 Lesson 15: Solve word problems involving addition and subtraction of fractions and mixed numbers. 5 M3 Lesson 9: Multiply fractions. 5 M3 Lesson 15: Solve word problems involving fractions with multiplication and division. 5 M3 Lesson 17: Create and solve one-step word problems involving fractions. 5 M3 Lesson 19: Solve multi-step word problems involving fractions and write equations with parentheses. 5 M3 Lesson 20: Solve multi-step word problems involving fractions. 5 M5 Lesson 15: Solve real-world problems involving areas of composite figures with mixed-number and decimal side lengths. 5 M5 Lesson 16: Solve multi-step word problems involving multiplication of mixed numbers.

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Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.AR.1.3 Solve real-world problems involving division of a unit fraction by a whole number and a whole number by a unit fraction.	5 M3 Topic C: Division with a Unit Fraction and a Whole Number 5 M3 Lesson 17: Create and solve one-step word problems involving fractions. 5 M3 Lesson 19: Solve multi-step word problems involving fractions and write equations with parentheses. 5 M3 Lesson 20: Solve multi-step word problems involving fractions.

Algebraic Reasoning

MA.5.AR.2 Demonstrate an understanding of equality, the order of operations and equivalent numerical expressions.

Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.AR.2.1 Translate written real-world and mathematical descriptions into numerical expressions and numerical expressions into written mathematical descriptions.	5 M1 Lesson 18: Write, interpret, and compare numerical expressions. 5 M3 Lesson 16: Compare and evaluate numerical expressions. 5 M3 Lesson 21: Evaluate expressions involving nested grouping symbols. 5 M4 Lesson 32: Interpret and evaluate numerical expressions involving decimals. 5 M4 Lesson 33: Create and solve real-world problems for given numerical expressions involving decimals.
MA.5.AR.2.2 Evaluate multi-step numerical expressions using order of operations.	5 M1 Lesson 19: Evaluate numerical expressions by using order of operations. 5 M1 Lesson 20: Determine and explain whether an equation involving operations with whole numbers is true or false. 5 M2 Lesson 16: Determine and explain whether an equation involving addition and subtraction with fractions and mixed numbers is true or false.

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Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.AR.2.2 ***continued***	5 M3 Lesson 16: Compare and evaluate numerical expressions. 5 M3 Lesson 18: Determine whether an equation involving multiplication and division with fractions is true or false and use the order of operations to evalute expressions with fractions. 5 M3 Lesson 19: Solve multi-step word problems involving fractions and write equations with parentheses. 5 M3 Lesson 21: Evaluate expressions involving nested grouping symbols. 5 M4 Lesson 32: Interpret and evaluate numerical expressions involving decimals. 5 M4 Lesson 34: Determine and explain whether an equation involving operations with decimals is true or false.
MA.5.AR.2.3 Determine and explain whether an equation involving any of the four operations is true or false.	5 M1 Lesson 20: Determine and explain whether an equation involving operations with whole numbers is true or false. 5 M2 Lesson 16: Determine and explain whether an equation involving addition and subtraction with fractions and mixed numbers is true or false. 5 M3 Lesson 18: Determine whether an equation involving multiplication and division with fractions is true or false and use the order of operations to evalute expressions with fractions. 5 M4 Lesson 34: Determine and explain whether an equation involving operations with decimals is true or false.
MA.5.AR.2.4 Given a mathematical or real-world context, write an equation involving any of the four operations to determine the unknown whole number with the unknown in any position.	5 M1 Lesson 22: Given word problem contexts, write an equation to determine the unknown. 5 M6 Lesson 3: Identify addition and subtraction relationships between corresponding inputs and outputs in tables. 5 M6 Lesson 4: Identify multiplication and division relationships between corresponding inputs and outputs in tables. 5 M6 Lesson 5: Identify mixed-operation relationships between corresponding inputs and outputs in tables.

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Algebraic Reasoning

MA.5.AR.3 Analyze patterns and relationships between inputs and outputs.

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MA.5.AR.3.1 Given a numerical pattern, identify and write a rule that can describe the pattern as an expression.	5 M6 Lesson 2: Determine and write expressions for number pattern rules. 5 M6 Lesson 3: Identify addition and subtraction relationships between corresponding inputs and outputs in tables. 5 M6 Lesson 4: Identify multiplication and division relationships between corresponding inputs and outputs in tables. 5 M6 Lesson 5: Identify mixed-operation relationships between corresponding inputs and outputs in tables.
MA.5.AR.3.2 Given a rule for a numerical pattern, use a two-column table to record the inputs and outputs.	5 M6 Topic A: Analyze and Generate Numerical Patterns 5 M6 Lesson 13: Reason about visual patterns by using tables and graphs.

Measurement

MA.5.M.1 Convert measurement units to solve multi-step problems.

Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.M.1.1 Solve multi-step real-world problems that involve converting measurement units to equivalent measurements within a single system of measurement.	5 M3 Lesson 3: Convert larger customary measurement units to smaller measurement units. 5 M3 Lesson 4: Convert smaller customary measurement units to larger measurement units. 5 M4 Lesson 28: Convert measurements and describe relationships between metric units. 5 M4 Lesson 29: Solve multi-step word problems by using metric measurement conversion. 5 M4 Lesson 30: Convert metric measurements involving decimals. 5 M4 Lesson 31: Convert customary measurements involving decimals.

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Measurement

MA.5.M.2 Solve problems involving money.

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MA.5.M.2.1 Solve multi-step real-world problems involving money using decimal notation.	5 M4 Lesson 10: Add and subtract multi-digit numbers with decimals to the hundredths by using the standard algorithm. 5 M4 Lesson 11: Solve multi-step word problems involving money by using decimal notation. 5 M4 Lesson 33: Create and solve real-world problems for given numerical expressions involving decimals.

Fractions

MA.5.FR.1 Interpret a fraction as an answer to a division problem.

Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.FR.1.1 Given a mathematical or real-world problem, represent the division of two whole numbers as a fraction.	5 M2 Topic A: Fractions and Division

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Fractions

MA.5.FR.2 Perform operations with fractions.

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MA.5.FR.2.1 Add and subtract fractions with unlike denominators, including mixed numbers and fractions greater than 1, with procedural reliability.	5 M2 Lesson 4: Add and subtract fractions with related units by using pictorial models. 5 M2 Lesson 5: Add and subtract fractions with related units by using area models to rename fractions. 5 M2 Lesson 6: Add and subtract fractions with related units by finding equivalent fractions numerically. 5 M2 Lesson 7: Add and subtract fractions with unrelated units by finding equivalent fractions pictorially. 5 M2 Lesson 8: Add and subtract fractions with unrelated units by finding equivalent fractions numerically. 5 M2 Lesson 10: Add whole numbers and mixed numbers and add mixed numbers with related units. 5 M2 Lesson 11: Add mixed numbers with unrelated units. 5 M2 Lesson 12: Subtract whole numbers from mixed numbers and mixed numbers from whole numbers. 5 M2 Lesson 13: Subtract mixed numbers from mixed numbers with related units. 5 M2 Lesson 14: Subtract mixed numbers from mixed numbers with unrelated units.
MA.5.FR.2.2 Extend previous understanding of multiplication to multiply a fraction by a fraction, including mixed numbers and fractions greater than 1, with procedural reliability.	5 M3 Topic A: Multiplication of a Fraction and a Whole Number 5 M3 Topic B: Multiplication of Fractions 5 M5 Lesson 13: Multiply mixed numbers. 5 M5 Lesson 14: Solve mathematical problems involving areas of composite figures with mixed-number side lengths.

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Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.FR.2.3 When multiplying a given number by a fraction less than 1 or a fraction greater than 1, predict and explain the relative size of the product to the given number without calculating.	5 M3 Lesson 5: Multiply unit fractions by fractions less than 1 pictorially. 5 M3 Lesson 6: Multiply fractions less than 1 pictorially. 5 M3 Lesson 8: Multiply fractions by fractions greater than 1. 5 M3 Lesson 9: Multiply fractions.
MA.5.FR.2.4 Extend previous understanding of division to explore the division of a unit fraction by a whole number and a whole number by a unit fraction.	5 M3 Lesson 10: Divide a nonzero whole number by a unit fraction to find the number of groups. 5 M3 Lesson 11: Divide a nonzero whole number by a unit fraction to find the size of the group. 5 M3 Lesson 12: Divide a unit fraction by a nonzero whole number. 5 M3 Lesson 13: Divide by whole numbers and unit fractions.

Geometric Reasoning

MA.5.GR.1 Classify two-dimensional figures and three-dimensional figures based on defining attributes.

Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.GR.1.1 Classify triangles or quadrilaterals into different categories based on shared defining attributes. Explain why a triangle or quadrilateral would or would not belong to a category.	5 M5 Lesson 1: Analyze hierarchies and identify properties of quadrilaterals. 5 M5 Lesson 3: Classify triangles into different categories based on attributes. 5 M5 Lesson 4: Classify trapezoids and parallelograms based on their properties. 5 M5 Lesson 5: Classify rectangles and rhombuses based on their properties. 5 M5 Lesson 6: Classify kites and squares based on their properties. 5 M5 Lesson 7: Identify quadrilaterals from given properties. 5 M5 Lesson 8: Classify quadrilaterals in a hierarchy based on properties.

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Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.GR.1.2 Identify and classify three-dimensional figures into categories based on their defining attributes. Figures are limited to right pyramids, right prisms, right circular cylinders, right circular cones and spheres.	5 M5 Lesson 1: Analyze hierarchies and identify properties of quadrilaterals. 5 M5 Lesson 2: Identify three-dimensional figures and classify the figures into categories based on defining attributes. 5 M5 Lesson 17: Identify attributes and properties of right rectangular prisms.

Geometric Reasoning

MA.5.GR.2 Find the perimeter and area of rectangles with fractional or decimal side lengths.

Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.GR.2.1 Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual models and formulas.	5 M5 Lesson 9: Find areas of square tiles with fraction side lengths by relating the tile to a unit square. 5 M5 Lesson 10: Organize, count, and represent a collection of square tiles. 5 M5 Lesson 11: Find the area of a rectangle with fraction side lengths by relating the rectangle to a unit square. 5 M5 Lesson 12: Find areas of rectangles with fraction side lengths by using multiplication. 5 M5 Lesson 15: Solve real-world problems involving areas of composite figures with mixed-number and decimal side lengths. 5 M5 Lesson 27: Solve word problems involving perimeters of rectangles. 5 M5 Lesson 28: Solve word problems involving perimeter, area, and volume.

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Geometric Reasoning

MA.5.GR.3 Solve problems involving the volume of right rectangular prisms.

Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.GR.3.1 Explore volume as an attribute of three-dimensional figures by packing them with unit cubes without gaps. Find the volume of a right rectangular prism with whole-number side lengths by counting unit cubes.	5 M5 Lesson 18: Find the volume of right rectangular prisms by packing with unit cubes and counting. 5 M5 Lesson 19: Find the volume of right rectangular prisms by packing with improvised units. 5 M5 Lesson 20: Compose and decompose right rectangular prisms to find their volume by using layers. 5 M5 Lesson 21: Interpret volume as filling. 5 M5 Lesson 22: Relate volumes of solids and liquid volume.
MA.5.GR.3.2 Find the volume of a right rectangular prism with whole-number side lengths using a visual model and a formula.	5 M5 Lesson 23: Find the volumes of right rectangular prisms by using the area of the base. 5 M5 Lesson 24: Find the volumes of right rectangular prisms by multiplying the edge lengths.
MA.5.GR.3.3 Solve real-world problems involving the volume of right rectangular prisms, including problems with an unknown edge length, with whole-number edge lengths using a visual model or a formula. Write an equation with a variable for the unknown to represent the problem.	5 M5 Lesson 25: Solve word problems involving volumes of right rectangular prisms. 5 M5 Lesson 26: Find the volumes of solid figures composed of right rectangular prisms. 5 M5 Lesson 28: Solve word problems involving perimeter, area, and volume. 5 M5 Lesson 29: Apply concepts and formulas of volume to design a sculpture by using right rectangular prisms, part 1. 5 M5 Lesson 30: Apply concepts and formulas of volume to design a sculpture by using right rectangular prisms, part 2.

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Geometric Reasoning

MA.5.GR.4 Plot points and represent problems on the coordinate plane.

Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.GR.4.1 Identify the origin and axes in the coordinate system. Plot and label ordered pairs in the first quadrant of the coordinate plane.	5 M6 Lesson 6: Construct a coordinate system on a line. 5 M6 Lesson 7: Construct a coordinate system in a plane. 5 M6 Lesson 8: Identify and plot points by using ordered pairs.
MA.5.GR.4.2 Represent mathematical and real-world problems by plotting points in the first quadrant of the coordinate plane and interpret coordinate values of points in the context of the situation.	5 M6 Lesson 9: Describe the distance and direction between points in the coordinate plane. 5 M6 Topic C: Solve Mathematical and Real-World Problems in the Coordinate Plane

Data Analysis and Probability

MA.5.DP.1 Collect, represent and interpret data and find the mean, mode, median or range of a data set.

Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.DP.1.1 Collect and represent numerical data, including fractional and decimal values, using tables, line graphs or line plots.	5 M2 Lesson 17: Collect and represent data on a line plot. 5 M6 Topic D: Data with Decimals

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Florida's Benchmark for Excellent Student Thinking Standards for Mathematics	Aligned Components
MA.5.DP.1.2 Interpret numerical data, with whole-number values, represented with tables or line plots by determining the mean, mode, median or range.	5 M1 Topic F: Data with Whole Numbers

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