G. Geometry

A. Graph Points On The Coordinate Plane To Solve Real-World And Mathematical Problems.

5.G.A.1

Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis and x-coordinate, y-axis and y-coordinate).

Stretch	Module	Session Title	Standards
Stretch 3	Module 1	Coordinates: Cardinal Movements	5.G.A.1
Stretch 3	Module 2	Coordinates and Symmetry: Constellations	5.G.A.1, 5.G.A.2, 5.G.B.4
Stretch 3	Module 3	Graphing Real-World Patterns	5.G.A.1, 5.G.A.2
Stretch 3	Module 4	Growing Patterns	5.G.A.1, 5.G.A.2, 5.OA.A.2, 5.OA.B.3

5.G.A.2

Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.

Stretch	Module	Session Title	Standards
Stretch 3	Module 2	Coordinates and Symmetry: Constellations	5.G.A.1, 5.G.A.2, 5.G.B.4
Stretch 3	Module 3	Graphing Real-World Patterns	5.G.A.1, 5.G.A.2
Stretch 3	Module 4	Growing Patterns	5.G.A.1, 5.G.A.2, 5.OA.A.2, 5.OA.B.3

B. Classify Two-Dimensional Figures Into Categories Based On Their Properties.

5.G.B.3

Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category. For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles.

Stretch	Module	Session Title	Standards
Stretch 1	Module 1	Constructing and Classifying Convex Polygons	5.G.B.3, 5.G.B.4
Stretch 1	Module 2	Classifying Quadrilaterals on the Geoboard	5.G.B.3, 5.G.B.4
Stretch 1	Module 3	Triangles with Segments: Properties and Classification	5.G.B.3, 5.G.B.4
Stretch 1	Module 4	Venn Diagrams	5.G.B.3, 5.G.B.4
Stretch 6	Module 2	Zukei: A Geometric Game	5.G.B.3, 5.G.B.4

5.G.B.4

Classify two-dimensional figures in a hierarchy based on properties.

Stretch	Module	Session Title	Standards
Stretch 1	Module 1	Constructing and Classifying Convex Polygons	5.G.B.3, 5.G.B.4
Stretch 1	Module 2	Classifying Quadrilaterals on the Geoboard	5.G.B.3, 5.G.B.4
Stretch 1	Module 3	Triangles with Segments: Properties and Classification	5.G.B.3, 5.G.B.4
Stretch 1	Module 4	Venn Diagrams	5.G.B.3, 5.G.B.4
Stretch 3	Module 2	Coordinates and Symmetry: Constellations	5.G.A.1, 5.G.A.2, 5.G.B.4
Stretch 6	Module 2	Zukei: A Geometric Game	5.G.B.3, 5.G.B.4

MD. Measurement and Data

A. Convert Like Measurement Units Within A Given Measurement System.

5.MD.A.1

Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.

Stretch	Module	Session Title	Standards
Stretch 1	Module 3	Productive Practice: Beyond the Times Tables	5.MD.A.1, 5.NBT.B.5

Stretch 2	Module 3	Mixed Numbers Word Problems	5.MD.A.1, 5.NF.A.1, 5.NF.A.2
Stretch 2	Module 3	Estimation in Fractions	5.MD.A.1, 5.NF.A.1, 5.NF.A.2
Stretch 3	Module 1	Representing Decimals: Measurement Contexts	5.MD.A.1, 5.NBT.A.3a
Stretch 3	Module 2	Add and Subtract Decimals by Jumping	5.MD.A.1, 5.NBT.B.7
Stretch 3	Module 3	Subtracting Decimals by Jumping	5.MD.A.1, 5.NBT.B.7
Stretch 4	Module 1	Determining the Fraction of a Set	5.MD.A.1, 5.NF.B.4a
Stretch 4	Module 3	Dividing Whole Numbers by Fractions	5.MD.A.1, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7b, 5.NF.B.7c
Stretch 4	Module 4	Applying Operations: Length	5.MD.A.1
Stretch 4	Module 4	Applying Operations: Weight	5.MD.A.1
Stretch 4	Module 4	Applying Operations: Area	5.MD.A.1
Stretch 4	Module 5	Applying Operations: Capacity	5.MD.A.1
Stretch 4	Module 5	Applying Operations: Volume	5.MD.A.1, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5b
Stretch 4	Module 5	Converting Units: Water Consumption	5.MD.A.1
Stretch 5	Module 1	Converting and Ordering Measurements	5.MD.A.1
Stretch 5	Module 2	Converting Units: Math Contest	5.MD.A.1, 5.NBT.A.2, 5.NBT.B.6
Stretch 5	Module 3	Map Scale and Distance Conversion	5.MD.A.1, 5.NBT.A.2, 5.NBT.B.6
Stretch 5	Module 4	Doubling and Halving Decimals	5.MD.A.1, 5.NBT.B.7
Stretch 5	Module 4	Analyzing Maps: Measuring and Representing Data	5.MD.A.1, 5.MD.B.2, 5.NBT.A.2, 5.NBT.B.6
Stretch 6	Module 2	Connecting Division: Decimals	5.MD.A.1, 5.NBT.B.7
Stretch 6	Module 4	Estimating and Converting Lengths	5.MD.A.1, 5.MD.B.2

B. Represent And Interpret Data.

5.MD.B.2

Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots. For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally.

Stretch	Module	Session Title	Standards
Stretch 2	Module 5	Estimating Measurements: Line Plots	5.MD.B.2
Stretch 3	Module 5	Line Plots and Fractions: Math Contest	5.MD.B.2, 5.NF.A.1, 5.NF.A.2, 5.NF.B.3, 5.NF.B.6, 5.NF.B.7a, 5.NF.B.7b
Stretch 5	Module 4	Analyzing Maps: Measuring and Representing Data	5.MD.A.1, 5.MD.B.2, 5.NBT.A.2, 5.NBT.B.6
Stretch 6	Module 4	Estimating and Converting Lengths	5.MD.A.1, 5.MD.B.2
Stretch 6	Module 5	Fraction Race	5.MD.B.2, 5.NF.A.1, 5.NF.A.2

C. Geometric Measurement: Understand Concepts Of Volume And Relate Volume To Multiplication And To A

5.MD.C.3

Recognize volume as an attribute of solid figures and understand concepts of volume measurement.

Stretch	Module	Session Title	Standards
Stretch 2	Module 1	Identifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 2	Classifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 3	Measuring Volumes of Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 4	Module 1	Views: Maximum and Minimum Volume	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5c
Stretch 4	Module 2	Views: Building Figures with Cubes	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b, 5.MD.C.5c
Stretch 4	Module 3	Scaling 3D Shapes: Edge, Area, and Volume	5.MD.C.3b, 5.MD.C.5b, 5.MD.C.5c
Stretch 4	Module 5	Applying Operations: Volume	5.MD.A.1, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5b

5.MD.C.3a

A cube with side length 1 unit, called a "unit cube," is said to have "one cubic unit" of volume, and can be used to measure volume.

Stretch	Module	Session Title	Standards
Stretch 4	Module 1	Views: Maximum and Minimum Volume	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5c
Stretch 4	Module 2	Views: Building Figures with Cubes	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b, 5.MD.C.5c

5.MD.C.3b

A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic units.

Stretch	Module	Session Title	Standards
Stretch 2	Module 1	Identifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 2	Classifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 3	Measuring Volumes of Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 4	Module 1	Views: Maximum and Minimum Volume	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5c
Stretch 4	Module 2	Views: Building Figures with Cubes	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b, 5.MD.C.5c
Stretch 4	Module 3	Scaling 3D Shapes: Edge, Area, and Volume	5.MD.C.3b, 5.MD.C.5b, 5.MD.C.5c
Stretch 4	Module 5	Applying Operations: Volume	5.MD.A.1, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5b

5.MD.C.4

Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.

Stretch	Module	Session Title	Standards
Stretch 2	Module 1	Identifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 2	Classifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 3	Measuring Volumes of Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 4	Estimating and Measuring Volume of Prisms	5.MD.C.4, 5.MD.C.5b
Stretch 4	Module 1	Views: Maximum and Minimum Volume	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5c
Stretch 4	Module 2	Views: Building Figures with Cubes	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b, 5.MD.C.5c
Stretch 4	Module 5	Applying Operations: Volume	5.MD.A.1, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5b

5.MD.C.5

Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.

Stretch	Module	Session Title	Standards
Stretch 2	Module 1	Identifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 2	Classifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 3	Measuring Volumes of Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 4	Estimating and Measuring Volume of Prisms	5.MD.C.4, 5.MD.C.5b
Stretch 4	Module 1	Views: Maximum and Minimum Volume	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5c
Stretch 4	Module 2	Views: Building Figures with Cubes	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b, 5.MD.C.5c
Stretch 4	Module 3	Scaling 3D Shapes: Edge, Area, and Volume	5.MD.C.3b, 5.MD.C.5b, 5.MD.C.5c
Stretch 4	Module 4	Volume: Math Contest	5.MD.C.5b

Stretch 4	Module 5	Applying Operations: Volume	5.MD.A.1, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5b

5.MD.C.5a

Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication..

Stretch	Module	Session Title	Standards
Stretch 2	Module 1	Identifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 2	Classifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 3	Measuring Volumes of Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 4	Module 2	Views: Building Figures with Cubes	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b, 5.MD.C.5c

5.MD.C.5b

Apply the formulas V = l × w × h and V = b × h for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real world and mathematical problems.

Stretch	Module	Session Title	Standards
Stretch 2	Module 1	Identifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 2	Classifying Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 3	Measuring Volumes of Prisms	5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b
Stretch 2	Module 4	Estimating and Measuring Volume of Prisms	5.MD.C.4, 5.MD.C.5b
Stretch 4	Module 2	Views: Building Figures with Cubes	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b, 5.MD.C.5c
Stretch 4	Module 3	Scaling 3D Shapes: Edge, Area, and Volume	5.MD.C.3b, 5.MD.C.5b, 5.MD.C.5c
Stretch 4	Module 4	Volume: Math Contest	5.MD.C.5b
Stretch 4	Module 5	Applying Operations: Volume	5.MD.A.1, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5b

5.MD.C.5c

Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real world problems.

Stretch	Module	Session Title	Standards
Stretch 4	Module 1	Views: Maximum and Minimum Volume	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5c
Stretch 4	Module 2	Views: Building Figures with Cubes	5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4, 5.MD.C.5a, 5.MD.C.5b, 5.MD.C.5c
Stretch 4	Module 3	Scaling 3D Shapes: Edge, Area, and Volume	5.MD.C.3b, 5.MD.C.5b, 5.MD.C.5c

NBT. Number and Operations - Base Ten

A. Understand The Place Value System.

5.NBT.A.1

Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.

Stretch	Module	Session Title	Standards
Stretch 3	Module 1	Representing Decimals: Abacus & Expanded Form	5.NBT.A.1, 5.NBT.A.3a
Stretch 4	Module 5	Productive Practice: Comparing Patterns	5.NBT.A.1

5.NBT.A.2

Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.

Stretch	Module	Session Title	Standards
Stretch 1	Module 3	Productive Practice: Multiplication Algorithm I	5.NBT.A.2, 5.NBT.B.5
Stretch 1	Module 4	Division by Decomposition	5.NBT.A.2, 5.NBT.B.5, 5.NBT.B.6
Stretch 5	Module 1	Estimation in Addition and Subtraction (Whole)	5.NBT.A.2, 5.NBT.B.6
Stretch 5	Module 2	Converting Units: Math Contest	5.MD.A.1, 5.NBT.A.2, 5.NBT.B.6
Stretch 5	Module 3	Calculating Powers: Small Exponents	5.NBT.A.2
Stretch 5	Module 3	Calculating Powers of 2	5.NBT.A.2
Stretch 5	Module 3	Map Scale and Distance Conversion	5.MD.A.1, 5.NBT.A.2, 5.NBT.B.6
Stretch 5	Module 4	Analyzing Maps: Measuring and Representing Data	5.MD.A.1, 5.MD.B.2, 5.NBT.A.2, 5.NBT.B.6
Stretch 6	Module 1	Multiplying Decimals: Decimal Factors	5.NBT.A.2, 5.NBT.B.7

5.NBT.A.3

Read, write, and compare decimals to thousandths.

Stretch	Module	Session Title	Standards
Stretch 3	Module 1	Representing Decimals: Abacus & Expanded Form	5.NBT.A.1, 5.NBT.A.3a
Stretch 3	Module 1	Representing Decimals: Measurement Contexts	5.MD.A.1, 5.NBT.A.3a
Stretch 3	Module 1	Ordering Decimals	5.NBT.A.3a, 5.NBT.A.3b
Stretch 3	Module 2	Placing Decimals on the Number Line	5.NBT.A.3a, 5.NBT.A.3b, 5.NBT.A.4
Stretch 3	Module 2	Jumping with Decimals on the Number Line	5.NBT.A.3a, 5.NBT.B.7
Stretch 3	Module 3	Add and Subtract Decimals by Decomposition	5.NBT.A.3a, 5.NBT.B.7
Stretch 3	Module 3	Productive Practice: Addition with Decimals	5.NBT.A.3b, 5.NBT.B.7
Stretch 3	Module 4	Practicing Additive Strategies with Decimals	5.NBT.A.3a, 5.NBT.A.3b, 5.NBT.B.7
Stretch 3	Module 4	Connecting Addition and Subtraction: Decimals	5.NBT.A.3b, 5.NBT.B.7
Stretch 3	Module 5	Estimation with Decimals	5.NBT.A.3a, 5.NBT.A.4, 5.NBT.B.7
Stretch 5	Module 3	Calculating Powers of 10	5.NBT.A.3a, 5.NBT.B.7
Stretch 5	Module 4	Multiplying Decimals by Whole Numbers	5.NBT.A.3a, 5.NBT.B.6, 5.NBT.B.7

5.NBT.A.3a

Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., 347.392 = 3 × 100 + 4 × 10 + 7 × 1 + 3 × (1/10) + 9 × (1/100) + 2 × (1/1000).

Stretch	Module	Session Title	Standards
Stretch 3	Module 1	Representing Decimals: Abacus & Expanded Form	5.NBT.A.1, 5.NBT.A.3a
Stretch 3	Module 1	Representing Decimals: Measurement Contexts	5.MD.A.1, 5.NBT.A.3a
Stretch 3	Module 1	Ordering Decimals	5.NBT.A.3a, 5.NBT.A.3b
Stretch 3	Module 2	Placing Decimals on the Number Line	5.NBT.A.3a, 5.NBT.A.3b, 5.NBT.A.4
Stretch 3	Module 2	Jumping with Decimals on the Number Line	5.NBT.A.3a, 5.NBT.B.7
Stretch 3	Module 3	Add and Subtract Decimals by Decomposition	5.NBT.A.3a, 5.NBT.B.7
Stretch 3	Module 4	Practicing Additive Strategies with Decimals	5.NBT.A.3a, 5.NBT.A.3b, 5.NBT.B.7
Stretch 3	Module 5	Estimation with Decimals	5.NBT.A.3a, 5.NBT.A.4, 5.NBT.B.7
Stretch 5	Module 3	Calculating Powers of 10	5.NBT.A.3a, 5.NBT.B.7
Stretch 5	Module 4	Multiplying Decimals by Whole Numbers	5.NBT.A.3a, 5.NBT.B.6, 5.NBT.B.7

5.NBT.A.3b

Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.

Stretch	Module	Session Title	Standards
Stretch 3	Module 1	Ordering Decimals	5.NBT.A.3a, 5.NBT.A.3b
Stretch 3	Module 2	Placing Decimals on the Number Line	5.NBT.A.3a, 5.NBT.A.3b, 5.NBT.A.4

Stretch 3	Module 3	Productive Practice: Addition with Decimals	5.NBT.A.3b, 5.NBT.B.7
Stretch 3	Module 4	Practicing Additive Strategies with Decimals	5.NBT.A.3a, 5.NBT.A.3b, 5.NBT.B.7
Stretch 3	Module 4	Connecting Addition and Subtraction: Decimals	5.NBT.A.3b, 5.NBT.B.7

5.NBT.A.4

Use place value understanding to round decimals to any place.

Stretch	Module	Session Title	Standards
Stretch 3	Module 2	Placing Decimals on the Number Line	5.NBT.A.3a, 5.NBT.A.3b, 5.NBT.A.4
Stretch 3	Module 5	Estimation with Decimals	5.NBT.A.3a, 5.NBT.A.4, 5.NBT.B.7
Stretch 6	Module 1	Applying Operations: Money	5.NBT.A.4, 5.NBT.B.7
Stretch 6	Module 4	Applying Fractions	5.NBT.A.4, 5.NBT.B.7

B. Perform Operations With Multi-Digit Whole Numbers And With Decimals To Hundredths.

5.NBT.B.5

Fluently multiply multi-digit whole numbers using the standard algorithm.

Stretch	Module	Session Title	Standards
Stretch 1	Module 3	Productive Practice: Beyond the Times Tables	5.MD.A.1, 5.NBT.B.5
Stretch 1	Module 3	Productive Practice: Multiplication Algorithm I	5.NBT.A.2, 5.NBT.B.5
Stretch 1	Module 4	Division by Decomposition	5.NBT.A.2, 5.NBT.B.5, 5.NBT.B.6
Stretch 1	Module 4	Division through Sharing	5.NBT.B.5, 5.NBT.B.6
Stretch 5	Module 2	Introducing Powers	5.NBT.B.5
Stretch 5	Module 2	Exploring Powers	5.NBT.B.5

5.NBT.B.6

Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

Stretch	Module	Session Title	Standards
Stretch 1	Module 3	Division: Grouping and Sharing	5.NBT.B.6
Stretch 1	Module 4	Division by Decomposition	5.NBT.A.2, 5.NBT.B.5, 5.NBT.B.6
Stretch 1	Module 4	Division through Sharing	5.NBT.B.5, 5.NBT.B.6
Stretch 1	Module 4	Connecting Multiplication and Division	5.NBT.B.6
Stretch 1	Module 5	Productive Practice: Quotients and Remainders	5.NBT.B.6
Stretch 2	Module 1	Connecting Division	5.NBT.B.6, 5.OA.A.2
Stretch 5	Module 1	Estimation in Addition and Subtraction (Whole)	5.NBT.A.2, 5.NBT.B.6
Stretch 5	Module 2	Converting Units: Math Contest	5.MD.A.1, 5.NBT.A.2, 5.NBT.B.6
Stretch 5	Module 3	Map Scale and Distance Conversion	5.MD.A.1, 5.NBT.A.2, 5.NBT.B.6
Stretch 5	Module 4	Multiplying Decimals by Whole Numbers	5.NBT.A.3a, 5.NBT.B.6, 5.NBT.B.7
Stretch 5	Module 4	Analyzing Maps: Measuring and Representing Data	5.MD.A.1, 5.MD.B.2, 5.NBT.A.2, 5.NBT.B.6

5.NBT.B.7

Add, subtract, multiply, and divide decimals to hundredths, 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.

Stretch	Module	Session Title	Standards
Stretch 3	Module 2	Jumping with Decimals on the Number Line	5.NBT.A.3a, 5.NBT.B.7
Stretch 3	Module 2	Add and Subtract Decimals by Jumping	5.MD.A.1, 5.NBT.B.7
Stretch 3	Module 3	Subtracting Decimals by Jumping	5.MD.A.1, 5.NBT.B.7
Stretch 3	Module 3	Add and Subtract Decimals by Decomposition	5.NBT.A.3a, 5.NBT.B.7
Stretch 3	Module 3	Productive Practice: Addition with Decimals	5.NBT.A.3b, 5.NBT.B.7
Stretch 3	Module 4	Practicing Additive Strategies with Decimals	5.NBT.A.3a, 5.NBT.A.3b, 5.NBT.B.7
Stretch 3	Module 4	Operations with the Calculator	5.NBT.B.7

Stretch 3	Module 4	Connecting Addition and Subtraction: Decimals	5.NBT.A.3b, 5.NBT.B.7
Stretch 3	Module 5	Estimation with Decimals	5.NBT.A.3a, 5.NBT.A.4, 5.NBT.B.7
Stretch 5	Module 3	Calculating Powers of 10	5.NBT.A.3a, 5.NBT.B.7
Stretch 5	Module 4	Doubling and Halving Decimals	5.MD.A.1, 5.NBT.B.7
Stretch 5	Module 4	Multiplying Decimals by Whole Numbers	5.NBT.A.3a, 5.NBT.B.6, 5.NBT.B.7
Stretch 5	Module 4	Dividing Decimals by Whole Numbers	5.NBT.B.7
Stretch 5	Module 5	Connecting Multiplication: Decimals	5.NBT.B.7
Stretch 5	Module 5	Connecting Division: Decimal Divisor	5.NBT.B.7
Stretch 5	Module 5	Productive Practice: Add and Subtract Decimals	5.NBT.B.7
Stretch 6	Module 1	Applying Operations: Money	5.NBT.A.4, 5.NBT.B.7
Stretch 6	Module 1	Estimating Operations	5.NBT.B.7
Stretch 6	Module 1	Multiplying Decimals: Decimal Factors	5.NBT.A.2, 5.NBT.B.7
Stretch 6	Module 2	Dividing Decimals by Decimals	5.NBT.B.7
Stretch 6	Module 2	Connecting Division: Decimals	5.MD.A.1, 5.NBT.B.7
Stretch 6	Module 4	Applying Fractions	5.NBT.A.4, 5.NBT.B.7

NF. Number and Operations - Fractions

A. Use Equivalent Fractions As A Strategy To Add And Subtract Fractions.

5.NF.A.1

Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. For example, 2/3 + 5/4 = 8/12 + 15/12 = 23/12. (In general, a/b + c/d = (ad + bc)/bd.)

Stretch	Module	Session Title	Standards
Stretch 2	Module 2	Adding Fractions	5.NF.A.1
Stretch 2	Module 2	Subtracting Fractions	5.NF.A.1
Stretch 2	Module 3	Productive Practice: Fractions	5.NF.A.1, 5.NF.A.2
Stretch 2	Module 3	Mixed Numbers Word Problems	5.MD.A.1, 5.NF.A.1, 5.NF.A.2
Stretch 2	Module 3	Estimation in Fractions	5.MD.A.1, 5.NF.A.1, 5.NF.A.2
Stretch 3	Module 5	Line Plots and Fractions: Math Contest	5.MD.B.2, 5.NF.A.1, 5.NF.A.2, 5.NF.B.3, 5.NF.B.6, 5.NF.B.7a, 5.NF.B.7b
Stretch 4	Module 2	Completing Multiplicative Frames with Fractions	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 3	Fractions and Mixed Numbers Word Problems	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.6
Stretch 6	Module 2	Dividing Decimals: Comparing Strategies	5.NF.A.1, 5.NF.A.2, 5.NF.B.3
Stretch 6	Module 3	Adding Egyptian Fractions	5.NF.A.1
Stretch 6	Module 4	Dividing Whole Numbers and Unit Fractions	5.NF.A.1, 5.NF.B.4a
Stretch 6	Module 5	Fraction Race	5.MD.B.2, 5.NF.A.1, 5.NF.A.2

5.NF.A.2

Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. For example, recognize an incorrect result 2/5 + 1/2 = 3/7, by observing that 3/7 < 1/2.

Stretch	Module	Session Title	Standards
Stretch 1	Module 5	Fractions in Our Lives	5.NF.A.2, 5.NF.B.3, 5.NF.B.4a
Stretch 2	Module 3	Productive Practice: Fractions	5.NF.A.1, 5.NF.A.2
Stretch 2	Module 3	Mixed Numbers Word Problems	5.MD.A.1, 5.NF.A.1, 5.NF.A.2
Stretch 2	Module 3	Estimation in Fractions	5.MD.A.1, 5.NF.A.1, 5.NF.A.2
Stretch 3	Module 5	Line Plots and Fractions: Math Contest	5.MD.B.2, 5.NF.A.1, 5.NF.A.2, 5.NF.B.3, 5.NF.B.6, 5.NF.B.7a, 5.NF.B.7b
Stretch 6	Module 2	Dividing Decimals: Comparing Strategies	5.NF.A.1, 5.NF.A.2, 5.NF.B.3
Stretch 6	Module 5	Fraction Race	5.MD.B.2, 5.NF.A.1, 5.NF.A.2

B. Apply And Extend Previous Understandings Of Multiplication And Division To Multiply And Divide Fraction

5.NF.B.3

Interpret a fraction as division of the numerator by the denominator (a/b = a ÷ b). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem. For example, interpret 3/4 as the result of dividing 3 by 4, noting that 3/4 multiplied by 4 equals 3, and that when 3 wholes are shared equally among 4 people each person has a share of size 3/4. If 9 people want to share a 50-pound sack of rice equally by weight, how many pounds of rice should each person get? Between what two whole numbers does your answer lie?

Stretch	Module	Session Title	Standards
Stretch 1	Module 5	Fractions in Our Lives	5.NF.A.2, 5.NF.B.3, 5.NF.B.4a
Stretch 2	Module 2	Reviewing Fractions	5.NF.B.3
Stretch 3	Module 5	Line Plots and Fractions: Math Contest	5.MD.B.2, 5.NF.A.1, 5.NF.A.2, 5.NF.B.3, 5.NF.B.6, 5.NF.B.7a, 5.NF.B.7b
Stretch 4	Module 3	Dividing Fractions by Whole Numbers	5.NF.B.3, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7a, 5.NF.B.7c
Stretch 6	Module 2	Dividing Decimals: Comparing Strategies	5.NF.A.1, 5.NF.A.2, 5.NF.B.3
Stretch 6	Module 3	Tangram Pieces: Areas and Fractions	5.NF.B.3, 5.NF.B.4a

5.NF.B.4

Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.

Stretch	Module	Session Title	Standards
Stretch 1	Module 5	Fractions in Our Lives	5.NF.A.2, 5.NF.B.3, 5.NF.B.4a
Stretch 4	Module 1	Determining the Fraction of a Set	5.MD.A.1, 5.NF.B.4a
Stretch 4	Module 1	Multiplying Fractions by Whole Numbers	5.NF.B.4a
Stretch 4	Module 1	Fraction Multiplication Word Problems	5.NF.B.4a
Stretch 4	Module 2	Exploring Fraction Multiplication Properties	5.NF.B.4a, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 2	Multiplying Fractions by Fractions	5.NF.B.4a, 5.NF.B.4b
Stretch 4	Module 2	Completing Multiplicative Frames with Fractions	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 3	Fractions and Mixed Numbers Word Problems	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.6
Stretch 6	Module 3	Adding and Subtracting Fractions: Patterns	5.NF.B.4a, 5.NF.B.6
Stretch 6	Module 3	Tangram Pieces: Areas and Fractions	5.NF.B.3, 5.NF.B.4a
Stretch 6	Module 4	Dividing Whole Numbers and Unit Fractions	5.NF.A.1, 5.NF.B.4a

5.NF.B.4a

Interpret the product (a/b) × q as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations a × q ÷ b. For example, use a visual fraction model to show (2/3) × 4 = 8/3, and create a story context for this equation. Do the same with (2/3) × (4/5) = 8/15. (In general, (a/b) × (c/d) = (ac)/(bd).

Stretch	Module	Session Title	Standards
Stretch 1	Module 5	Fractions in Our Lives	5.NF.A.2, 5.NF.B.3, 5.NF.B.4a
Stretch 4	Module 1	Determining the Fraction of a Set	5.MD.A.1, 5.NF.B.4a
Stretch 4	Module 1	Multiplying Fractions by Whole Numbers	5.NF.B.4a
Stretch 4	Module 1	Fraction Multiplication Word Problems	5.NF.B.4a
Stretch 4	Module 2	Exploring Fraction Multiplication Properties	5.NF.B.4a, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 2	Multiplying Fractions by Fractions	5.NF.B.4a, 5.NF.B.4b
Stretch 4	Module 2	Completing Multiplicative Frames with Fractions	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 3	Fractions and Mixed Numbers Word Problems	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.6
Stretch 6	Module 3	Adding and Subtracting Fractions: Patterns	5.NF.B.4a, 5.NF.B.6
Stretch 6	Module 3	Tangram Pieces: Areas and Fractions	5.NF.B.3, 5.NF.B.4a
Stretch 6	Module 4	Dividing Whole Numbers and Unit Fractions	5.NF.A.1, 5.NF.B.4a

5.NF.B.4b

Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.

Stretch	Module	Session Title	Standards

Stretch 4	Module 2	Multiplying Fractions by Fractions	5.NF.B.4a, 5.NF.B.4b
Stretch 4	Module 2	Completing Multiplicative Frames with Fractions	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 3	Fractions and Mixed Numbers Word Problems	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.6

5.NF.B.5

Interpret multiplication as scaling (resizing)

Stretch	Module	Session Title	Standards
Stretch 4	Module 2	Exploring Fraction Multiplication Properties	5.NF.B.4a, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 2	Completing Multiplicative Frames with Fractions	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 3	Dividing Whole Numbers by Fractions	5.MD.A.1, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7b, 5.NF.B.7c
Stretch 4	Module 3	Dividing Fractions by Whole Numbers	5.NF.B.3, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7a, 5.NF.B.7c

5.NF.B.5a

Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.

Stretch	Module	Session Title	Standards
Stretch 4	Module 2	Exploring Fraction Multiplication Properties	5.NF.B.4a, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 2	Completing Multiplicative Frames with Fractions	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 3	Dividing Whole Numbers by Fractions	5.MD.A.1, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7b, 5.NF.B.7c
Stretch 4	Module 3	Dividing Fractions by Whole Numbers	5.NF.B.3, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7a, 5.NF.B.7c

5.NF.B.5b

Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence a/b = (n × a)/(n × b) to the effect of multiplying a/b by 1.

Stretch	Module	Session Title	Standards
Stretch 4	Module 2	Exploring Fraction Multiplication Properties	5.NF.B.4a, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 2	Completing Multiplicative Frames with Fractions	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.5a, 5.NF.B.5b
Stretch 4	Module 3	Dividing Whole Numbers by Fractions	5.MD.A.1, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7b, 5.NF.B.7c
Stretch 4	Module 3	Dividing Fractions by Whole Numbers	5.NF.B.3, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7a, 5.NF.B.7c

5.NF.B.6

Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.

Stretch	Module	Session Title	Standards
Stretch 3	Module 5	Line Plots and Fractions: Math Contest	5.MD.B.2, 5.NF.A.1, 5.NF.A.2, 5.NF.B.3, 5.NF.B.6, 5.NF.B.7a, 5.NF.B.7b
Stretch 4	Module 3	Fractions and Mixed Numbers Word Problems	5.NF.A.1, 5.NF.B.4a, 5.NF.B.4b, 5.NF.B.6
Stretch 5	Module 5	Representing Data: Understanding Mean	5.NF.B.6
Stretch 6	Module 3	Adding and Subtracting Fractions: Patterns	5.NF.B.4a, 5.NF.B.6

5.NF.B.7

Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.

Stretch	Module	Session Title	Standards

Stretch 3	Module 5	Line Plots and Fractions: Math Contest	5.MD.B.2, 5.NF.A.1, 5.NF.A.2, 5.NF.B.3, 5.NF.B.6, 5.NF.B.7a, 5.NF.B.7b
Stretch 4	Module 3	Dividing Whole Numbers by Fractions	5.MD.A.1, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7b, 5.NF.B.7c
Stretch 4	Module 3	Dividing Fractions by Whole Numbers	5.NF.B.3, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7a, 5.NF.B.7c

5.NF.B.7a

Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. For example, create a story context for (1/3) ÷ 4, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that (1/3) ÷ 4 = 1/12 because (1/12) × 4 = 1/3.

Stretch	Module	Session Title	Standards
Stretch 3	Module 5	Line Plots and Fractions: Math Contest	5.MD.B.2, 5.NF.A.1, 5.NF.A.2, 5.NF.B.3, 5.NF.B.6, 5.NF.B.7a, 5.NF.B.7b
Stretch 4	Module 3	Dividing Fractions by Whole Numbers	5.NF.B.3, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7a, 5.NF.B.7c

5.NF.B.7b

Interpret division of a whole number by a unit fraction, and compute such quotients. For example, create a story context for 4 ÷ (1/5), and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that 4 ÷ (1/5) = 20 because 20 × (1/5) = 4.

Stretch	Module	Session Title	Standards
Stretch 3	Module 5	Line Plots and Fractions: Math Contest	5.MD.B.2, 5.NF.A.1, 5.NF.A.2, 5.NF.B.3, 5.NF.B.6, 5.NF.B.7a, 5.NF.B.7b
Stretch 4	Module 3	Dividing Whole Numbers by Fractions	5.MD.A.1, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7b, 5.NF.B.7c

5.NF.B.7c

Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem. For example, how much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 1/3-cup servings are in 2 cups of raisins?

Stretch	Module	Session Title	Standards
Stretch 4	Module 3	Dividing Whole Numbers by Fractions	5.MD.A.1, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7b, 5.NF.B.7c
Stretch 4	Module 3	Dividing Fractions by Whole Numbers	5.NF.B.3, 5.NF.B.5a, 5.NF.B.5b, 5.NF.B.7a, 5.NF.B.7c

OA. Operations and Algebraic Thinking

A. Write And Interpret Numerical Expressions

5.OA.A.1

Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.

Stretch	Module	Session Title	Standards
Stretch 1	Module 5	Expressions with Multiple Operations I	5.OA.A.1, 5.OA.A.2
Stretch 1	Module 5	Expressions with Multiple Operations II	5.OA.A.1, 5.OA.A.2
Stretch 2	Module 1	Expressions with Multiple Operations III	5.OA.A.1, 5.OA.A.2, 5.OA.B.3
Stretch 2	Module 1	Productive Practice: Order of Operations I	5.OA.A.1
Stretch 2	Module 4	Multiples and Factors I	5.OA.A.1
Stretch 2	Module 4	Multiples and Factors II	5.OA.A.1
Stretch 2	Module 4	Exploring Prime Numbers	5.OA.A.1
Stretch 3	Module 5	Productive Practice: Order of Operations II	5.OA.A.1
Stretch 3	Module 5	Productive Practice: Order of Operations III	5.OA.A.1, 5.OA.A.2, 5.OA.B.3

5.OA.A.2

Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. For example, express the calculation "add 8 and 7, then multiply by 2" as 2 × (8 + 7). Recognize that 3 × (18932 + 921) is three times as large as 18932 + 921, without having to calculate the indicated sum or product.

Stretch	Module	Session Title	Standards
Stretch 1	Module 5	Expressions with Multiple Operations I	5.OA.A.1, 5.OA.A.2
Stretch 1	Module 5	Expressions with Multiple Operations II	5.OA.A.1, 5.OA.A.2
Stretch 2	Module 1	Expressions with Multiple Operations III	5.OA.A.1, 5.OA.A.2, 5.OA.B.3
Stretch 2	Module 1	Connecting Division	5.NBT.B.6, 5.OA.A.2
Stretch 3	Module 4	Growing Patterns	5.G.A.1, 5.G.A.2, 5.OA.A.2, 5.OA.B.3
Stretch 3	Module 5	Productive Practice: Order of Operations III	5.OA.A.1, 5.OA.A.2, 5.OA.B.3

B. Analyze Patterns And Relationships.

5.OA.B.3

Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. For example, given the rule "Add 3" and the starting number 0, and given the rule "Add 6" and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain informally why this is so.

Stretch	Module	Session Title	Standards
Stretch 2	Module 1	Expressions with Multiple Operations III	5.OA.A.1, 5.OA.A.2, 5.OA.B.3
Stretch 3	Module 4	Growing Patterns	5.G.A.1, 5.G.A.2, 5.OA.A.2, 5.OA.B.3
Stretch 3	Module 5	Productive Practice: Order of Operations III	5.OA.A.1, 5.OA.A.2, 5.OA.B.3