



**Georgia's K-12
Mathematics Standards
Curriculum Map**

2026 – 2027

GRADE 5 ADVANCED MATH

FCS GRADE 5 ADVANCED MATH CURRICULUM MAP

Georgia's K-8 Mathematics Standards							
Semester 1				Semester 2			
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
Investigating Volume of Solid Figures	Building Conceptual Understanding of Place Value Using Measurement and Data Reasoning	Extending Place Value and Working with Decimals to Solve Problems	Building Conceptual Understanding of Multiplication and Division with Whole Numbers	Building Fraction Understanding	Making Sense of Fraction Multiplication and Division	Exploring Geometry and the Coordinate Plane	Culminating Capstone Unit
18 Days	25 Days	20 Days	20 Days	24 Days	19 Days	19 Days	25 Days
<u>Unit Dates</u> 8/5/2026 - 8/28/2026	<u>Unit Dates</u> 8/31/2026 - 10/13/2026	<u>Unit Dates</u> 10/14/2026 - 11/11/2026	<u>Unit Dates</u> 11/12/2026 - 12/16/2026	<u>Unit Dates</u> 1/5/2027 - 2/8/2027	<u>Unit Dates</u> 2/9/2027 - 3/12/2027	<u>Unit Dates</u> 3/16/2027 - 4/16/2027	<u>Unit Dates</u> 4/19/2027 - 5/21/2027
Learning Expectations 5.GSR.8.3 5.GSR.8.4	Learning Expectations 5.NR.1.1 5.NR.1.2 5.MDR.7.1 5.MDR.7.3 5.MDR.7.4 6.NR.4.7	Learning Expectations 5.NR.4.1 5.NR.4.2 5.NR.4.3 5.NR.4.4 5.MDR.7.2 6.NR.1.3	Learning Expectations 5.NR.2.1 5.NR.2.2 5.NR.5.1	Learning Expectations 5.NR.3.2 5.NR.3.3 5.MDR.7.2 6.NR.4.1 6.PAR.6.2	Learning Expectations 5.NR.3.1 5.NR.3.4 5.NR.3.5 5.NR.3.6 6.GSR.5.1 6.NR.1.2	Learning Expectations 5.PAR.6.1 5.PAR.6.2 5.GSR.8.1 5.GSR.8.2 6.PAR.8.1	Learning Expectations All Standards
5.MP.1-8	5.MP.1-8	5.MP.1-8	5.MP.1-8	5.MP.1-8	5.MP.1-8	5.MP.1-8	5.MP.1-8
The Framework for Statistical Reasoning , Mathematical Modeling Framework , and the K-12 Mathematical Practices should be taught throughout the units.							

Curriculum Map Key

Learning Expectations for ES Advanced Courses are in green.

An * indicates to refer to the unit details below for specific instructional and assessment expectations.

Unit 1: Investigating Volume of Solid Figures

18 Days

Unit Dates: 8/5/2026 - 8/28/2026

5.GSR.8: Examine properties of polygons and rectangular prisms, classify polygons by their properties, and discover volume of right rectangular prisms.

5.GSR.8.3: Investigate volume of right rectangular prisms by packing them with unit cubes without gaps or overlaps. Then, determine the total volume to solve problems.

5.GSR.8.4: Discover and explain how the volume of a right rectangular prism can be found by multiplying the area of the base times the height to solve authentic, mathematical problems.

Unit 2: Building Conceptual Understanding of Place Value Using Measurement and Data Reasoning

25 Days

Unit Dates: 8/31/2026 - 10/13/2026

5.NR.1: Use place value understanding to solve real-life, mathematical problems.

5.MDR.7: Solve problems involving customary measurements, metric measurements, and time and analyze graphical displays of data to answer relevant questions.

6.NR.4: Solve a variety of contextual problems involving ratios, unit rates, equivalent ratios, percentages, and conversions within measurement systems using proportional reasoning.

5.NR.1.1: Explain 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 $\frac{1}{10}$ of what it represents in the place to its left.

5.NR.1.2: Explain patterns in the placement of digits when multiplied or divided by a power of 10. Use whole number exponents to denote powers of 10, up to 10^3 .

5.MDR.7.1: Explore real-life problems involving different units of measurement, including distance, mass, weight, volume, and time.

5.MDR.7.3: Convert among units within the metric system and then apply these conversions to solve multi-step, practical problems.

5.MDR.7.4: Convert among units within relative sizes of measurement units within the customary measurement system.

6.NR.4.7: Use ratios to convert within measurement systems (customary and metric) to solve authentic problems that exist in everyday life.

Unit 3: Extending Place Value and Working with Decimals to Solve Problems

20 Days

Unit Dates: 10/14/2026 - 11/11/2026

5.NR.4: Read, write, and compare decimal numbers to the thousandths place, and round and perform operations with decimal numbers to the hundredths place to solve relevant, mathematical problems.

5.MDR.7: Solve problems involving customary measurements, metric measurements, and time and analyze graphical displays of data to answer relevant questions.

6.NR.1: Solve relevant, mathematical problems involving operations with whole numbers, fractions, and decimal numbers.

5.NR.4.1: Read and write decimal numbers to the thousandths place using base-ten numerals written in standard form and expanded form.

5.NR.4.2: Represent, compare, and order decimal numbers to the thousandths place based on the meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.

5.NR.4.3: Use place value understanding to round decimal numbers to the hundredths place.

5.NR.4.4: Solve problems involving addition and subtraction of decimal numbers to the hundredths place using a variety of strategies.

5.MDR.7.2: Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life.

6.NR.1.3: Perform operations (multiplication) with multi-digit decimal numbers fluently using models and student-selected strategies.

Unit 4: Building Conceptual Understanding of Multiplication and Division with Whole Numbers

20 Days

Unit Dates: 11/12/2026 - 12/16/2026

5.NR.2: Multiply and divide multi-digit whole numbers to solve relevant, mathematical problems.

5.NR.5: Write, interpret, and evaluate numerical expressions within authentic problems.

5.NR.2.1: Fluently multiply multi-digit (up to 3-digit by 2-digit) whole numbers to solve authentic problems.

5.NR.2.2: Fluently divide multi-digit whole numbers (up to 4-digit dividends and 2-digit divisors no greater than 25) to solve practical problems.

5.NR.5.1: Write, interpret, and evaluate simple numerical expressions involving whole numbers with or without grouping symbols to represent actual situations.

Unit 5: Building Fraction Understanding

24 Days

Unit Dates: 1/5/2027 - 2/8/2027

5.NR.3: Describe fractions and perform operations with fractions to solve relevant mathematical problems using part-whole strategies and visual models.

5.MDR.7: Solve problems involving customary measurements, metric measurements, and time and analyze graphical displays of data to answer relevant questions.

6.NR.4: Solve a variety of contextual problems involving ratios, unit rates, equivalent ratios, percentages, and conversions within measurement systems using proportional reasoning.

6.PAR.6: Identify, write, evaluate, and interpret numerical and algebraic expressions as mathematical models to explain relevant situations.

5.NR.3.2: Compare and order up to three fractions with different numerators and/or different denominators by flexibly using a variety of tools and strategies.

5.NR.3.3: Model and solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators.

5.MDR.7.2: Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life.

6.NR.4.1: Explain the concept of a ratio, represent ratios, and use ratio language to describe a relationship between two quantities.

6.PAR.6.2: Determine greatest common factors and least common multiples using a variety of strategies to make sense of applicable problems.

Unit 6: Making Sense of Fraction Multiplication and Division

19 Days

Unit Dates: 2/9/2027 - 3/12/2027

5.NR.3: Describe fractions and perform operations with fractions to solve relevant mathematical problems using part-whole strategies and visual models.

6.GSR.5: Solve relevant problems involving area, surface area, and volume.

6.NR.1: Solve relevant, mathematical problems involving operations with whole numbers, fractions, and decimal numbers.

5.NR.3.1: Explain the meaning of a fraction as division of the numerator by the denominator ($\frac{a}{b} = a \div b$). Solve problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers.

5.NR.3.4: Model and solve problems involving multiplication of a fraction and a whole number.

5.NR.3.5: Explain why multiplying a whole number by a fraction greater than one results in a product greater than the whole number, and why multiplying a whole number by a fraction less than one results in a product less than the whole number and multiplying a whole number by a fraction equal to one results in a product equal to the whole number.

5.NR.3.6: Model and solve problems involving division of a unit fraction by a whole number and a whole number by a unit fraction.

6.GSR.5.1: Explore area as a measurable attribute of triangles, quadrilaterals, and other polygons conceptually by composing or decomposing into rectangles, triangles, and other shapes. Find the area of these geometric figures to solve problems.

6.NR.1.2: Multiply and divide any combination of whole numbers, fractions, and mixed numbers using a student-selected strategy. Interpret products and quotients of fractions and solve word problems.

Unit 7: Exploring Geometry and the Coordinate Plane

19 Days

Unit Dates: 3/16/2027 - 4/16/2027

5.PAR.6: Solve relevant problems by creating and analyzing numerical patterns using the given rule(s).

5.GSR.8: Examine properties of polygons and rectangular prisms, classify polygons by their properties, and discover volume of right rectangular prisms.

6.PAR.8: Graph rational numbers as points on the coordinate plane to represent and solve contextual, mathematical problems; draw polygons using the coordinates for their vertices and find the length of a side of a polygon.

5.PAR.6.1: Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms by completing a table.

5.PAR.6.2: Represent problems by plotting ordered pairs and explain coordinate values of points in the first quadrant of the coordinate plane.

5.GSR.8.1: Classify, compare, and contrast polygons based on properties.

5.GSR.8.2: Determine, through exploration and investigation, that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.

6.PAR.8.1: Locate and position rational numbers on a horizontal or vertical number line; find and position pairs of integers and other rational numbers on a coordinate plane.

Unit 8: Capstone

25 Days

Unit Dates: 4/19/2027 - 5/21/2027

ALL Standards Addressed in this Unit

The capstone unit applies content that has already been learned in previous interdisciplinary PBLs and units throughout the school year. The capstone unit is an interdisciplinary unit that allows students to create a presentation, report, or demonstration that could include their models used to answer an overarching driving question. (e.g., Students can present their solution(s), findings, project, or answer to the driving question to a larger audience during the culminating capstone unit.)