6th Grade Math

Course 1 Mathematics - Year at a Glance

Course # 1205010, 1205090

A Note to Parents: The Florida state standards require math teachers plan lessons that build knowledge of various mathematical concepts, develop the ability to apply these concepts, and engage students in critical thinking and discourse. All standards in the state course description are designed to be learned by the end of the course.

Please note the units of study listed below indicate the course sequence. Instructional pacing may vary. Specific questions regarding when content will be addressed in a specific course are best answered by the individual teacher.

Course Description

In Grade 6, instructional time should focus on four critical areas: (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking.

Students in Grade 6 also build on their work with area in elementary school by reasoning about relationships among shapes to determine area, surface area, and volume. They find areas of right triangles, other triangles, and special quadrilaterals by decomposing these shapes, rearranging or removing pieces, and relating the shapes to rectangles. Using these methods, students discuss, develop, and justify formulas for areas of triangles and parallelograms. Students find areas of polygons and surface areas of prisms and pyramids by decomposing them into pieces whose area they can determine. They reason about right rectangular prisms with fractional side lengths to extend formulas for the volume of a right rectangular prism to fractional side lengths. They prepare for work on scale drawings and constructions in Grade 7 by drawing polygons in the coordinate plane.

IB MYP Notes: The International Baccalaureate® aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect. The MYP curriculum framework comprises eight subject groups, providing a broad and balanced education for early adolescents. The MYP requires at least 50 hours of teaching time for each subject group, in each year of the program. The MYP is inclusive by design; students of all interests and academic abilities can benefit from their participation.

CPALMS Link

Please follow the link below to learn more about the course expectations, the course standards, and to access student resources. The student resources include Florida Department of Education recommended resources that students can use to learn the concepts and skills in this course.
https://www.cpalms.org/PreviewCourse/Preview/10283

	Unit of Study	Unit Sequence
Quarter 1 Aug 10 – Oct 12	Unit 1: Numerical Expressions	• Whole Number Operations • Powers and Exponents • Order of Operations • Prime Factorization • Greatest Common Factor • Least Common Multiple
	Unit 2: Integers	• Integers • Comparing and Ordering Integers
	Unit 3: Fractions	• Fractions and Decimals on the Number Line • Adding and Subtracting Fractions • Multiplying Fractions • Dividing Fractions • Dividing Mixed Numbers
	Unit 4: Decimals	• Adding and Subtracting Decimals • Multiplying Decimals • Dividing Decimals
Quarter 2 Oct 13 – Dec 22	Unit 5: Ratios and Proportions	• Ratios • Ratio Tables • Rates • Comparing and Graphing Ratios • Converting Measures
	Unit 6: Percent	• Percent • Solving Percent Problems
	Unit 7: Algebraic Expressions	• Algebraic Expressions • Writing Expressions • Factoring Expressions • The Distributive Property
Quarter 3 Jan 11 – Mar 11	Unit 8: Inequalities	• Writing and graphing Inequalities • Solving Inequalities Using Addition or Subtraction • Solving Inequalities Using Multiplication or Division
	Unit 9: Equations	• Writing Equations in One Variable • Solving Equations Using Addition or Subtraction • Solving Equations Using Multiplication or Division • Writing Equations in Two Variables
	Unit 10: Areas of Polygons and The Coordinate Plane	• Areas of Parallelograms • Areas of Triangles • Areas of Trapezoids • Areas of Composite Figures • The Coordinate Plane • Reflecting Points in the Coordinate Plane • Polygons in the Coordinate Plane
	Unit 11: Surface Area and Volume	• Three-Dimensional Figures • Surface Areas of Prisms • Surface Areas of Pyramids • Volume of Rectangular Prisms

Quarter 4 Mar 22 – May 27	Unit 12: Statistical Measure	• Introduction to Statistics • Measures of Center • Mean • Mean Absolute Deviation • Measures of Variation
	Unit 13: Data Displays	• Box-and-Whisker Plots • Histograms • Shapes of Distribution • Choosing Appropriate Measures

Course Resources

Core Textbook:
Big Ideas - Students have online access through My.SarasotaCountySchools.net

Supplemental Resources:
i-Ready - Students log in through My.SarasotaCountySchools.net
Khan Academy
FSA Portal
For additional supplemental resources, please see your child's course syllabus.