6ᵗʰ Grade Accelerated Math

6ᵗʰ Accelerated Mathematics - Year at a Glance
Course # 1205020

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 accelerated, instructional time will emphasize five areas: (1) performing all four operations with rational numbers with procedural fluency; (2) exploring and applying concepts of ratios, rates, percentages and proportions to solve problems; (3) creating, interpreting and using expressions, equations and inequalities; (4) extending geometric reasoning to plotting points on the coordinate plane, area and volume of geometric figures and (5) extending understanding of statistical thinking to represent and compare categorical and numerical data.

Curricular content for all subjects must integrate critical-thinking, problem-solving, and workforce-literacy skills; communication, reading, and writing skills; mathematics skills; collaboration skills; contextual and applied-learning skills; technology-literacy skills; information and media-literacy skills; and civic-engagement skills.

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. After clicking the link, please make sure you are in the "2022 and Beyond" tab on the website. This will ensure you are looking at our new B.E.S.T. Standards.

6ᵗʰ Accelerated: https://www.cpalms.org/PreviewCourse/Preview/10283

	Module of Study	Module Sequence
Quarter 1 Aug 10 – Oct 12 *45 Days*	Module 1: Compute with Decimals and Fractions	• Multiply multi-digit decimals • Divide multi-digit decimals • Factors and multiples • Define Factors and Multiples • Multiply fractions • Divide whole numbers by fractions • Divide fractions by fractions • Divide with whole and mixed numbers • Whole numbers • Apply decimal and fraction operations
	Module 2: Integers and Rational Numbers	• Defining integers and rational numbers • Comparing and Ordering Integers • Compare and order rational numbers • Absolute value • Solve problems with absolute value
	Module 3: Compute with Integers	• Add integers • Subtract integers • Multiple integers • Divide integers • Apply integer operations
	Module 5: ***Rational Numbers*** ***(update from 22-23)***	• ***Rational numbers*** • ***Add rational numbers*** • ***Multiply rational numbers*** • ***Divide rational numbers*** • ***Apply rational number operations***
Quarter 2 Oct 13 – Dec 21 *46 Days*	***Module 4:*** ***Numerical and Algebraic Expressions*** ***(update from 22-23)***	• ***Powers and exponents*** • ***Numerical expressions*** • ***Write algebraic expressions*** • ***Evaluate algebraic expressions*** • ***Use the distributive property*** • ***Equivalent algebraic expressions***
	Module 6: Algebraic Expressions	• Simplify Algebraic Expressions • Add linear expressions • Subtract linear expressions • Combine operations with linear expressions • Equivalent algebraic expressions
	Module 7: One-Step Equations and Inequalities	• Use substitution to solve equations • Use addition equations to solve problems • Use subtraction equations to solve problems • Use multiplication equations to solve problems • Use division equations to solve problems • Equations with rational numbers • Inequalities • Solve inequalities
	Module 8: Inequalities	• Addition and subtraction inequalities • Use addition and subtraction inequalities to solve

		• problems • Multiplication and division inequalities with positive coefficients • Multiplication and division inequalities with negative coefficients • Use multiplication and division inequalities to solve problems
Quarter 3 Jan 8 – Mar 7 *42 Days*	Module 9: Ratios, Rates, and Proportions	• Ratios • Tables of equivalent rations • Solve ratio problems • Convert within the customary system • Convert within the metric system • Rates and unit rates • Proportions
	Module 10: Percents	• Percents • Percents greater that 100% and less than 1% • Relate fractions, decimals, and percents • Find the percent of a number • Estimate the percent of a number • Find a whole • Find a percent
	Module 11: Solve Problems Involving Proportions and Percents	• Connect ratios, proportions, and percents • Percent of change • Tax • Tips and markdowns • Discounts • Interest • Commission and fees • Percent error
	Module 12: Coordinate Geometry	• The coordinate plane • Reflections of points • Distance on the coordinate plane • Perimeter and area on the coordinate plane
Quarter 4 Mar 18 – May 24 *44 Days*	Module 13: Area, Volume, and Surface Area	• Area of triangles • Area of quadrilaterals • Area of composite figures • Volume of right rectangular prisms • Surface area of right rectangular prisms • Surface area of pyramids
	Module 14: Area	• Area pf parallelograms • Area of trapezoids • Area of polygons • Area of composite figures
	Module 15: Statistical Measures and Displays	• Statistical questions • Biased and unbiased • Histograms • Measures of center • Interquartile range and box plots • Outliers

		• Interpret data distributions • Changes in data values
	Module 16: Statistical Measures	• Measures of center • Compare two populations • Make predications
	Module 17: Probability	• Simple events • Sample space • Theoretical probability • Experimental probability

Course Resources

Core Textbook:
Florida Reveal Math - Students have online access through My.SarasotaCountySchools.net

F.A.S.T. Assessment Information:
https://flfast.org/
https://flfast.org/-/media/project/client-portals/florida-fast/pdf/fast-facts.pdf

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