7th Grade Math

Course 2 Mathematics - Year at a Glance

Course # 1205040, 1205095 (IB)

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 7, instructional time will emphasize five areas: (1) recognizing that fractions, decimals and percentages are different representations of rational numbers and performing all four operations with rational numbers with procedural fluency; (2) creating equivalent expressions and solving equations and inequalities; (3) developing understanding of and applying proportional relationships in two variables; (4) extending analysis of two- and three-dimensional figures to include circles and cylinders and (5) representing and comparing categorical and numerical data and developing understanding of probability.

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.

Course 2: https://www.cpalms.org/PreviewCourse/Preview/10285
Course 2 International Baccalaureate (IB): https://www.cpalms.org/PreviewCourse/Preview/16842

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	Module of Study	Module Sequence
Quarter 1 Aug 10 – Oct 12 *45 Days*	Module 1: Proportional Relationships	• Rations and proportional relationships • Use ratios to convert measurements • Understand proportional relationships • Tables of proportional relationships • Graphs of proportional relationships • Equations of proportional relationships • Solve problems involving proportional relationships
	Module 2: Solve Percent Numbers	• Connect ratios and percents • Percent of change • Tax • Tips and markdowns • Discounts • Interest • Commission and fees • Percent error
	Module 3: Rational Numbers	• Rational numbers • Add rational numbers • Multiply rational numbers • Divide rational numbers • Products and quotients of powers • Power of powers • Apply rational number operations
Quarter 2 Oct 13 – Dec 22 *46 Days*	Module 4: Algebraic Expressions	• Simplify Algebraic Expressions • Add linear expressions • Subtract linear expressions • Combine operations with linear expressions • Equivalent algebraic expressions
	Module 5: Equations	• Solve two-step equations: $px + q = r$ • Use two-step equations to solve problems • Solve two-step equations: $p(x + q) = r$ • Equations using bar diagrams • Equations using algebra tiles • Use more two-step equations to solve problems
Quarter 3 Jan 10 – Mar 10 *42 Days*	Module 6: 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
	Module 7: Area	• Area of parallelograms • Area of trapezoids • Area of polygons • Scale drawings

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Quarter 4 Mar 21 – May 26 *44 Days*	Module 8: Circles and Cylinders	• Circumference of circles • Area of circles • Surface Area of Cylinders • Volume of Cylinders
	Module 9: Statistical Measures and Displays	• Measures of center and variation • Compare two populations • Make predictions • Circle graphs • Select an appropriate display
	Module 10: Probability	• Simple events • Sample space • Theoretical probability • Experimental probability and simulations

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
Khan Academy
For additional supplemental resources, please see your child's course syllabus.