

Junior High Course Descriptions 2016-2017

6 th Grade	7 th Grade	8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Math A	Math B/C	IM1	IM2	IM3	Trig/Precalculus and/or AP Stats	AP Calculus and/or AP Stats
Math A	Math B	Math C	IM1	IM2	IM3	Trig/Precalculus and/or AP Stats
Math A	Math 7	Math B/C	IM1	IM2	IM3	Trig/Precalculus and/or AP Stats
Math A	Math 7	Math B	Math C	IM1	IM2	IM3

Math A (6th grade)

In Math A (6), instructional time should focus on four critical areas: (1) connecting ratio, rate, and percentage 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 also work toward fluency with multi-digit division and multi-digit decimal operations.

Math 7 (7th grade)

In Math A (7), instructional time will focus on three critical areas: (1) connecting ratio and rate to whole number multiplication and division, and using concepts of ratio and rate to solve problems; (2) developing fluency with fraction and decimal operations and how to convert between the two; and (3) extending the notion of number to the system of rational numbers, which includes negative numbers. This course is designed for students who perform below grade level in math.

Math B (7th/8th grade)

In Math B, instructional time will focus on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples.

Math C (8th grade)

In Math C, instructional time should focus on three critical areas: (1) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence and understanding and applying the Pythagorean Theorem. Students also work towards fluency with solving simple sets of two equations with two unknowns by inspection.

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Math B/C (7th and 8th grade)

Math B/C is fast-paced, rigorous course that combines the standards from both Math B and Math C over one year. Teacher recommendation is required for a student to take this course.

Integrated Math I-P (8th grade)

This course explores functions, exponents, slope & rate of change, writing and graphing linear equations, dimensional analysis, transformations, multiplying polynomials, solving complex equations that include fractions and exponents, modeling two-variable data, exponential growth and decay, solving systems of equations with substitution and elimination, congruence and coordinate geometry, inequalities, data representations, and constructions. *Meets UC/CSU "C" requirement.*