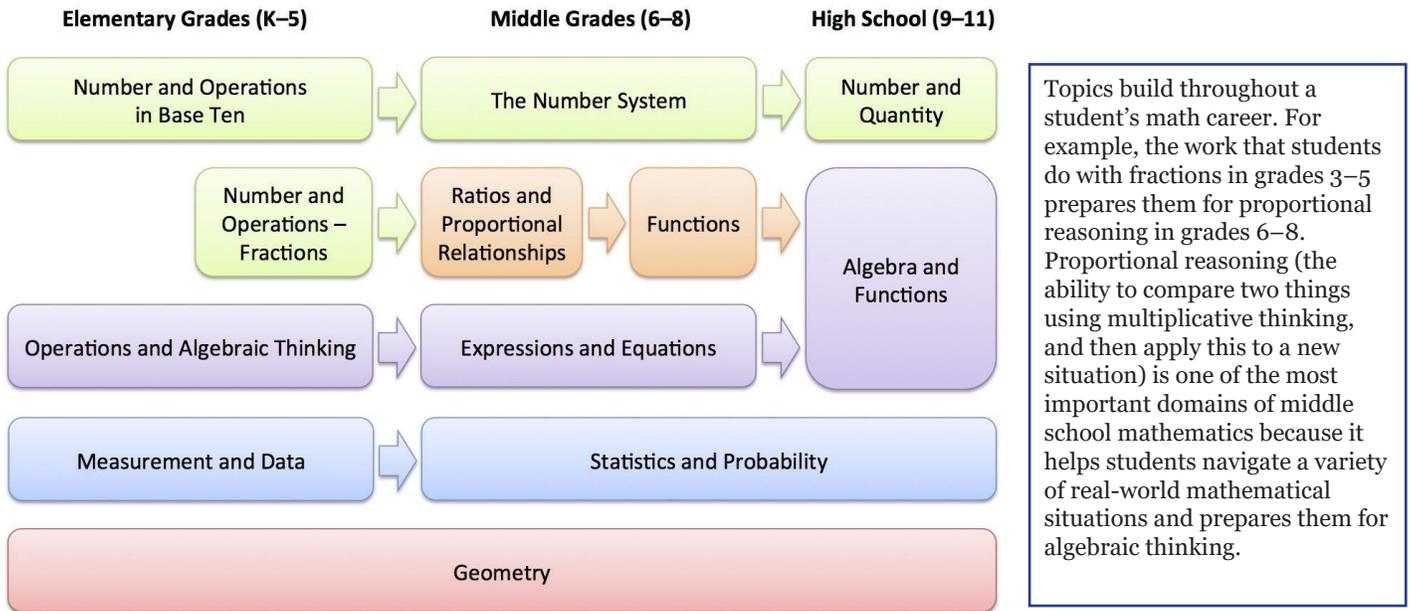




Middle Grades Math

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Math in grades 6–8 continues to develop the conceptual understandings from grades K–5 and builds a foundation for high school math. The SFUSD Math Core Curriculum is aligned to the Common Core State Standards (CCSS) for Mathematics, and is both challenging for all students and developmentally appropriate.



CCSS Math 6

- Ratio and Rate Reasoning
- Operations with Fractions & Decimals
- Understanding Negative Numbers
- Algebraic Expressions and Equations
- Area of Triangles & Quadrilaterals
- Surface Area and Volume of Rectangular Prisms
- Representing Data Distributions
- Measures of Center and Spread

CCSS Math 7

- Proportional Relationships and Reasoning
- Operations with Positive and Negative Numbers
- Representing and Solving Problems with Algebraic Expressions, Equations, and Inequalities
- Constructing and Describing Angles and Figures
- Surface Area and Volume of Prisms
- Probability
- Describing and Comparing Populations

CCSS Math 8

- Analyzing Graphs
- Introduction to Functions
- Irrational Numbers
- Roots and Exponents
- Linear Functions
- Systems of Linear Equations
- Transformations
- Angle Relationships
- Pythagorean Theorem
- Volume of Cylinders, Cones, & Spheres
- Bivariate Data

There are content-specific standards for each grade. In middle grades, students explore the domains of : the number system, ratios and proportional relationships, functions, expressions and equations, statistics and probability, and geometry.



Middle Grades Math

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In high schools, students will take courses in Algebra 1, Geometry, Algebra 2, and a variety of more advanced courses. The math concepts that students learn in middle grades are essential supports for the more abstract work they do in high school.

All students may reach Advanced Placement (AP) math courses (AP Statistics, AP Calculus AB, and AP Calculus BC) through a variety of course sequences in high school. Which course sequence, or pathway, a student chooses to pursue is a family choice.

See the websites below for more information:

- Common Core State Standards for math:
www.corestandards.org/Math
- High school course sequence and acceleration options:
www.sfusdmath.org/high-school-pathways
- Math Validation Test:
www.sfusdmath.org/MVT
- Student and parent resources for math:
www.sfusdmath.org/family-letters

For Translations in Español, 中文, Tagalog, Tiếng Việt and عربي , please visit: www.sfusd.edu/math