

**Curriculum at a Glance**  
**Mathematics**  
**Grade 6 - Course 1 (on level math)**

Mathematics is a vigorous and growing discipline – a universal language useful for communication and research in other disciplines. We want our students to reason and communicate mathematically, to be mathematical problem-solvers, to value mathematics and to feel confident in their ability to use mathematics. Throughout the school year, math teachers at MMS foster and emphasize the following mathematical practices:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Grade 6 Course 1 is aligned with current Grade 6 Connecticut Core Standards. This course is designed to prepare students to take Grade 7 Course 2.

<b>Unit Name</b>	<b>Content</b>
Skills Review	Whole Number Operations Using the Standard Algorithms. Base Ten Place Value Multiply and Divide by Powers of Ten
Numerical Expressions and Factors	Powers and Exponents Order of Operations Prime Factorization Divisibility Rules, Prime and Composite Numbers Greatest Common Factor Least Common Multiple
Fractions and Decimals	Comparing and Ordering Fractions and Mixed Numbers Mixed Number and Improper Fraction Conversions Equivalent Fractions and Simplifying Fractions Mixed Numbers and Fraction Operations Place Value, Comparing, Ordering Decimals Decimal Operations Long Division Algorithm with Division of Decimals

Algebraic Expressions	Evaluating, Simplifying and Writing Algebraic Expressions Properties of Addition and Multiplication The Distributive Property
Area of Polygons	Areas of Parallelograms Areas of Triangles Areas of Trapezoids Areas of Composite Shapes Polygons in the Coordinate Plane
Ratios and Rates	Writing and Using Ratios, Rates and Unit Rates Ratio Tables Comparing Ratios Percent, Fraction and Decimal Conversions Solving Percent Problems
Integers and the Coordinate Plane	Describe Quantities with Positive and Negative Numbers Comparing and Ordering Integers and Absolute Value Fractions and Decimals on the Number Line Graphing Ordered Pairs and Finding Distances Between Numbers Reflections in the Coordinate Plane
Equations and Inequalities	Writing Algebraic Equations Solving One Step Algebraic Equations Writing Equations in Two Variables Writing and Graphing Inequalities
Surface Area and Volume	Three-Dimensional Figures Surface Area of Prisms and Pyramids Volumes of Rectangular Prisms
Statistical Measures	Answering Statistical Questions and using Dot Plots Measures of Center: Mean, Median and Mode Measures of Variation Mean Absolute Deviation
Data Displays	Stem and Leaf Plot Histograms Shapes of Distribution Box and Whisker Plots