

Curriculum at a Glance
Mathematics
Grade 6 - Course 2 (above grade 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 2 includes all units of study from Grade 6 Course 1 and half of the course content from Grade 7 Course 2. This course is designed to prepare students to take Grade 7 Course 3.

Unit Name	Content
Skills Review	Whole Number Operations 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 Factoring the GCF
Area of Polygons	Areas of Parallelograms, Triangles, and Trapezoids Areas of Composite Shapes Polygons in the Coordinate Plane
Ratios, Rates and Proportions	Writing and Using Ratios, Rates and Unit Rates Ratio Tables Comparing Ratios and Proportions Writing and Solving Proportions
Percents	Percent, Fraction and Decimal Conversions Comparing and Ordering Fractions, Decimals and Percents Percent Proportion and Equation problems Percent of Increase and Decrease Discount and Markup, Tax and Total Cost Simple Interest and Account Balance
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 Points Reflections in the Coordinate Plane Operations with Integers
Rational Numbers	Ordering and Comparing Rational Numbers Operations with Rational Numbers
Equations and Inequalities	Writing Algebraic Equations Solving One-Step Algebraic Equations Writing Equations in Two Variables Writing and Graphing Inequalities Solving Multi-Step Algebraic Equations
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

Surface Area and Volume	Three-Dimensional Figures Surface Area of Rectangular Prisms and Pyramids Volumes of Rectangular Prisms
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