

Course Description: Grade 6 Mathematics is a comprehensive course that is aligned with the Common Core State Standards. In this class, students will expand their mathematical understanding and problem-solving abilities. Through engaging lessons and activities, students will explore key concepts such as ratios, rates, and proportional relationships, expressions and equations, geometry, statistics, and probability. By focusing on real-world applications, critical thinking, and mathematical reasoning, this course aims to equip students with the necessary skills to analyze and solve a wide range of mathematical problems, fostering a strong foundation for future math success.

Time Commitment: This 30-week (60 lesson) course includes 2 in-class hours each week and 1-2 hours of homework each lesson, corresponding to a full-year course.

Grading: Grades in this course will be computed using a percentage-based system. All assignments completed by students will be categorized into the following weight categories:

- 10% Classwork
- 15% Homework
- 25% Quizzes (2 lowest scores are dropped)
- 40% Assessments (1 lowest score is dropped)
- 10% Final Exam

Note: If a student misses class, it is his or her responsibility to (1) view or request the recording of the previous lesson and (2) complete any missed work. **NO MAKEUP LESSONS** will be provided for any reason.

Content:

Unit	Name	Lessons	Length
0	Place Value & Rounding	Lesson 0-1 Student/Parent Orientation	1 Lesson
1	The Whole Numbers	Lesson 1-1 Multiplication & Division of Whole Numbers	2.5 Weeks
		Lesson 1-2 Multi-Digit Multiplication/Division & Multiples	
		Lesson 1-3 Prime Numbers and Factoring	
		Lesson 1-4 GCF and Distributive Property	
		Lesson 1-5 Unit Review and Assessment	
2	Fractions	Lesson 2-1 Mixed Numbers & Equivalent Fractions	3 Weeks
		Lesson 2-2 Fractions w/ Division & Operations	
		Lesson 2-3 Multiplying Fractions by a Whole & Fractions of a Whole	
		Lesson 2-4 Multiplying & Dividing Fractions	
		Lesson 2-5 More Work Dividing Fractions	
		Lesson 2-6 Unit Review and Assessment	
3	Decimals	Lesson 3-1 Base 10 Operations and Adding Decimals	2.5 Weeks
		Lesson 3-2 Multiplying Decimals	
		Lesson 3-3 Decimal Division 1	
		Lesson 3-4 Decimal Division 2 and Mixed Practice	
		Lesson 3-5 Unit Review and Assessment	
4	Negative Numbers	Lesson 4-1 Positive and Negative Numbers	2.5 Weeks
		Lesson 4-2 Introduction to Rational Numbers	
		Lesson 4-3 Coordinate Plane	
		Lesson 4-4 Absolute Value	
		Lesson 4-5 Unit Review and Assessment	

5	Exponents and Order of Operations	Lesson 5-1	Exponents and Order of Operations	2 Weeks
		Lesson 5-2	Algebraic Expression Basics	
		Lesson 5-3	Equivalent Expressions	
		Lesson 5-4	Unit Review and Assessment	
6	Equations and Inequalities	Lesson 6-1	Intro to Equation Solutions and One-Step Equations	2.5 Weeks
		Lesson 6-2	Solving One Step Equation with Mult. and Div	
		Lesson 6-3	Translating Expressions & Solutions to Inequalities	
		Lesson 6-4	Translating Phrases into Inequalities	
		Lesson 6-5	Unit Review and Assessment	
7	Ratio and Rates	Lesson 7-1	Ratios and Rates	3 Weeks
		Lesson 7-2	Equivalent Ratios and Tape Diagrams	
		Lesson 7-3	Ratios as Fractions and Unit Rates	
		Lesson 7-4	Rates and Converting Units	
		Lesson 7-5	Variables Related by Rates	
		Lesson 7-6	Unit Review and Assessment	
8	Percents	Lesson 8-1	Introduction to Percent & Equivalent Ratios	1.5 Weeks
		Lesson 8-2	Percents using Products & Percent Problems	
		Lesson 8-3	Unit Review and Assessment	
9	Area and Solids	Lesson 9-1	Area of Rectangle and Triangle	3 Weeks
		Lesson 9-2	Trapezoids and Parallelograms	
		Lesson 9-3	Perimeter, Area, and Algebra	
		Lesson 9-4	Types of Solids & Volumes of Right Rectangular Prisms	
		Lesson 9-5	Surface Area & Modeling with Volume and Surface Area	
		Lesson 9-6	Unit Review and Assessment	
10	Statistics and Probability	Lesson 10-1	Statistical Questions and Data Gathering	4 Weeks
		Lesson 10-2	Histograms and Measure of Center	
		Lesson 10-3	Variation in Data Sets and Quartiles	
		Lesson 10-4	Box Plots and Data Distribution Shapes	
		Lesson 10-5	Outliers and Analyzing results	
		Lesson 10-6	Chances with Ratios and Predicting Outcomes	
		Lesson 10-7	Probability, Percent, and Non Uniform Probabilities	
		Lesson 10-8	Unit Review and Assessment	
11	Standardized Exam Prep & Course Conclusion	Lesson 11-1	Gr6 Math Review 1	3 Weeks
		Lesson 11-2	Gr6 Math Review 2	
		Lesson 11-3	Gr6 Math Review 3	
		Lesson 11-4	Gr6 Math Review 4	
		Lesson 11-5	Gr6 Math Review 5	
		Lesson 11-6	Final Exam	