

Syllabus Grade 5 Mathematics

Course Description: Grade 5 Mathematics is a comprehensive course that builds upon foundational math skills and focuses on key concepts aligned with the Common Core standards. Students will engage in hands-on activities, problem-solving tasks, and collaborative learning experiences to deepen their understanding of number sense, operations, fractions, decimals, geometry, measurement, and data analysis. They will explore topics such as place value, multiplication, division, fractions, volume, and graphing, while developing fluency in mathematical operations and applying critical thinking skills to solve real-world problems.

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	Order of Operations	Lesson 1-1	Writing and Evaluating Expressions	2 Weeks	
		Lesson 1-2	Grouping Symbols and Parentheses		
		Lesson 1-3	Translating Expressions		
		Lesson 1-4	Review and Assessment		
2	Multiplication & Division	Lesson 2-1	Multiplying with Multiples of 10 and Area Models		
		Lesson 2-2	Standard Algorithm and Product Estimation		
		Lesson 2-3	Dividing with Multiples of 10 and Area Models	0.147	
		Lesson 2-4	Division with Partial Quotients & Quotient Estimation	3 Weeks	
		Lesson 2-5	Standard Algorithm of Division & Problem Solving		
		Lesson 2-6	Problem Solving/Review and Assessment		
	Decimal Place Value	Lesson 3-1	Value of a Digit & Decimal Place Value	0.14	
•		Lesson 3-2	Read and Write Decimals in Word and Expanded Form		
3		Lesson 3-3	Comparing, Ordering, and Rounding Decimals	2 Weeks	
		Lesson 3-4	Review and Assessment		
	Operations with Decimals	Lesson 4-1	Estimating and Modeling Sums and Differences		
		Lesson 4-2	Add and Subtract Decimals		
		Lesson 4-3	Multiply Decimals by Multiples of 10 and Whole Numbers		
4		Lesson 4-4	Multiplying Decimals	3.5 Weeks	
		Lesson 4-5	Dividing Decimals with Multiples of Ten and Models		
		Lesson 4-6	Decimal Quotients		
		Lesson 4-7	Problem Solving/Review and Assessment		

	Add and Subtract Fractions	Lesson 5-1	Fraction Concepts Review	
		Lesson 5-2	Modeling & Estimating Addition/Subtraction of Fractions	
E		Lesson 5-3	Add and Subtract Like/Unlike Fractions	3 Weeks
5		Lesson 5-4	Add and Subtract Mixed Numbers	o rreeke
		Lesson 5-5	Problem Solving with Adding and Subtracting Fractions	
		Lesson 5-6	Review and Assessment	
	Multiply and Divide Fractions	Lesson 6-1	Multiplication Scaling & Modleing FracXWN Multiplication	
		Lesson 6-2	Multiplying Whole Numbers and Fractions	
		Lesson 6-3	Multiplying Mixed Numbers	
6		Lesson 6-4	Fractional Side Lengths and Fractions as Division	3.5 Weeks
		Lesson 6-5	Divide Unit Fractions by Whole Numbers	
		Lesson 6-6	Multiplying and Dividing Fractions Problem Solving	
		Lesson 6-7	Problem Solving/Review and Assessment	
	Coordinate Planes and Patterns	Lesson 7-1	Coordinate Systems	
		Lesson 7-2	Distance between 2 Points and Coordinate WP	
7		Lesson 7-3	Interpreting Data and Extending Patterns	2.5 Weeks
		Lesson 7-4	Function Tables, Graphing Patterns, and WP	
		Lesson 7-5	Review and Assessment	
	Classifying Shapes/Geometry	Lesson 8-1	Classifying Polygons & Regular/Irregular Polygons	
0		Lesson 8-2	Classifying Triangles	2 Weeks
8		Lesson 8-3	Attributes and Classifying Quadrilaterals	2 WCCR3
		Lesson 8-4	Review and Assessment	
	Data and Measurement	Lesson 9-1	Customary Conversions	
		Lesson 9-2	Metric Conversions and Time	
9		Lesson 9-3	Metric and Customary Conversions Problem Solving	2.5 Weeks
		Lesson 9-4	Line Plots	
		Lesson 9-5	Review and Assessment	
	Volume	Lesson 10-1	Intro to Volume and Volumetric Cubes	
		Lesson 10-2	Variations of the Volume Formula	
10		Lesson 10-3	Volume Practice and Word Problems	3 Weeks
10		Lesson 10-4	Volume of Composite Figures	2
		Lesson 10-5	Volume of Composite Figures Practice	
		Lesson 10-6	Review and Assessment	
	Standardized Exam Prep & Course Conclusion	Lesson 11-1	Gr5 Math Review 1	
		Lesson 11-2	Gr5 Math Review 2	0.514
11		Lesson 11-3	Gr5 Math Review 3	2.5 Weeks
		Lesson 11-4	Gr5 Math Review 4	
		Lesson 11-4	Final Exam	