Our Lady of the Lake Roman Catholic School
Yearly Course Outline
Math
Sixth Grade
2023–2024

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Course Description

This course is designed to introduce students to the basics of algebra. Students will build a deep understanding of mathematics through a variety of activities in an environment where collaboration, conversations, and questioning are routine practices.

Instructional Materials

Carnegie Learning, Mathematics Course 1
Mathia

Methods of Assessment and Distribution

All test, quiz, and homework grades will be posted on PowerSchool (www.ollpowerschool.org). Please check for postings frequently. Each quarter, four test- and four quiz-weighted assessments will be administered.

1st & 2nd Quarters (Exams taken)	3rd & 4th Quarters (No Exams taken)	Grading Scale
50% Tests	60% Tests	A: 100-94
20% Exams	---% Exams	B: 93-86
20% Quizzes	30% Quizzes	C: 85-78
10% Homework	10% Homework	D: 77-70
		U: 69 and below

Tentative Course Calendar
** *Dates and course content are subject to change at discretion of teacher or administration.* **

Week	Standards	Objectives (The learner will . . .)	Instructional Materials	Assessments
1st Quarter				
Week 1 *Aug. 14-18* 8/18 Summer reading due	**6.EE.2.b** **6.EE.3**	PREASSESSMENT To recognize and apply the properties of operations; To use the order of operations to simplify expressions and solve problems	Text, Mathia, Notes	Quiz 1- Properties/Order of Operations
Week 2 *Aug. 21-25*	6.NS.3	To read, write, and round decimals; To add and subtract decimals; To solve problems involving decimals	Text, Mathia, Notes	Test 1-Understanding Decimals, Adding and Subtracting Decimals
Week 3 *Aug. 28-01*	6.EE.2.b 6.NS.2 6.NS.3	To multiply and divide decimals To solve problems using multiplication and division of decimals	Text, Mathia, Notes	Quiz 2-Mult Decimals and Divide Decimals (Scarecrow Activity)
Week 4 *Sept. 04-08* 9/4 No School	6.EE.2 6.EE.2.a 6.EE.2.b 6.EE.2.c 6.EE.5 6.EE.6 6.EE.7	To add, subtract, multiply and divide decimals To solve problems using addition, subtraction, multiplication and division of decimals To evaluate algebraic expressions To write algebraic expressions and use them to solve problems To use mental math and number sense to estimate and solve equations;	Text, Mathia, Notes	Test 2-Decimals Operations
Week 5 *Sept. 11-15*	6.EE.5 6.EE.6 6.EE.7	To use inverse operations to solve addition and subtraction equations	Text, Mathia, Notes	Quiz 3- Expressions (Translating Expressions Key Words activity)
Week 6 *Sept. 18-22*	6.EE.5 6.EE.6 6.EE.7	To use inverse operations to solve addition and subtraction equations To use multiplication and division to solve equations	Text, Mathia, Notes	Test 3-Expressions and One-Step Add/Sub Equations
Week 7 *Sept. 25-29* Spirit Week 9/29 Fun Run Kickoff	6.EE.5 6.EE.6 6.EE.7	To use inverse operations to solve addition and subtraction equations To use multiplication and division to solve equations	Text, Mathia, Notes	Quiz 4-One-Step Equations Activity
Week 8 *Oct. 02-06* 10/4 – 6th Grade Retreat	6.EE.5 6.EE.6 6.EE.7	To use inverse operations to solve addition and subtraction equations To use multiplication and division to solve equations	Text, Mathia, Notes	Test 4-Expressions and One-Step Equations
Week 9 *Oct. 09-13* 10/13 ½ day (Fun Run)		EXAM REVIEW/EXAM	Text, Mathia, Notes	
2nd Quarter				
Week 10 *Oct. 16-20*	6.NS.4 6.EE.1 6.EE.2 6.EE.2.c	To check for divisibility using mental math; To use divisibility to solve problems To read, write, and expand exponents; To simplify expressions with exponents	Text, Mathia, Notes	Quiz 1-Divisibiltiy Rules

Week 11 Oct. 23-27 10/27 Fun Run Reward Day	6.EE.1 6.NS.4	To factor numbers To find the prime factorization of numbers; To find the greatest common factor of two or more numbers	Text, Mathia, Notes	Test 1- Prime, Composite, Vocabulary, GCF Activity
Week 12 Oct. 30-03	6.NS.4	To find the least common multiple of two or more numbers	Text, Mathia, Notes	Quiz 2 – GCF and LCM Canvas
Week 13 Nov. 06-10 11/6 No School (Formation Day) 11/7 Virtual (Senior Day) 11/10 Virtual (OLL Festival)	6.NS.1	To solve problems by multiplying fractions by fractions and fractions by whole or mixed numbers; To use models to interpret and perform fraction division and to solve word problems involving fraction division; To divide fractions and to solve problems by dividing fractions	Text, Mathia, Notes	Test 2-Fraction Operations part 1 Multiplying Fractions
Week 14 Nov. 13-17	6.NS.1 6.EE.6 6.EE.7	To estimate and compute the quotient of mixed numbers; To solve equations with fractions	Text, Mathia, Notes	Quiz 3-Dividing Fractions
Week 15 Nov. 27-30	6.RP.1 6.RP.6 6.RP.7	To solve problems by multiplying fractions by fractions and fractions by whole or mixed numbers; To use models to interpret and perform fraction division and to solve word problems involving fraction division; To divide fractions and to solve problems by dividing fractions	Text, Mathia, Notes	Test 3-Fraction Operations part 2
Thanksgiving Holidays **Nov. 21-25**				
Week 16 Dec. 04-08	6.RP.3 6.RP.3.a 6.RP.3.d	To find and use unit rates and unit costs To use equivalent ratios and rates to solve real-world and mathematical problems;	Text, Mathia, Notes	Quiz 4-Unit Rate
Week 17 Dec. 11-15	6.RP.3 6.RP.3.a 6.RP.3.d	To use ratios to convert from one unit of measure to another	Text, Mathia, Notes	Test 4-Ratio and Rate
Week 18 Dec. 18-20 12/20 ½ day		6-7th – Middle School Exams		
Christmas Holidays **Dec. 21-05**				
3rd Quarter				
Week 19 Jan. 08-12	6.RP.3.c	To model percent and to write percent using equivalent ratios; To find equivalent forms of fractions, decimals, and percent	Text, Mathia, Notes	Quiz 1-Decimal to Percent and Percent to Decimal Activity
Week 20 Jan. 15-19 1/15 No School	6.RP.3.c	To use percent to find part of a whole; To solve problems with finding the whole, given a part and the percent	Text, Mathia, Notes	Test 1-FDP
Week 21 Jan. 22-26	6.RP.3.c	To use percent to find part of a whole; To solve problems with finding the whole, given a part and the percent	Text, Mathia, Notes	Test 2-Finding whole and percent

1/25 – Social Studies Fair				
Week 22 *Jan. 29-02* Catholic Schools Week, 2/2 Pep Rally	6.NS.5 6.NS.6 6.NS.6.a 6.NS.6.c 6.NS.7.c 6.NS.7.a	To use integers, opposites, and absolute values to represent real world situations; To compare and order integers	Text, Mathia, Notes	Quiz 2-Integers
Week 23 *Feb. 05-09* 2/9 ½ day (Grandparents Day)	6.NS.5 6.NS.6 6.NS.6.c 6.NS.7.a 6.NS.7.b	To identify rational and irrational numbers; To show that numbers are rational and to plot rational numbers on a number line; To compare and order rational numbers	Text, Mathia, Notes	
Mardi Gras Holidays **Feb. 12-16**				
Week 24 *Feb. 19-23*	6.EE.5 6.EE.6 6.EE.8 6.NS.7.d	To identify rational and irrational numbers; To show that numbers are rational and to plot rational numbers on a number line; To compare and order rational numbers; Adding Integers	Text, Mathia, Notes	Test 3-Integer Operations; Intro to Adding Integers
Week 25 *Feb. 26-01*	6.NS.6 6.NS.6.c 6.NS.8 6.NS.6.b 6.G.3 6.EE.9	To graph polygons in a coordinate plane	Text, Mathia, Notes	Quiz 3 – Coordinate Plane
Week 26 *Mar. 04-08*	6.NS.6 6.NS.6.c 6.NS.8 6.NS.6.b 6.G.3 6.EE.9	To graph polygons in a coordinate plane	Text, Mathia, Notes	Test 4-Coordinate Plane Graphing Project – Emoji
Week 27 *March 11-15*	6.SP.3 6.SP.5 6.SP.5.c	To find and analyze the mean of a set of data using models and calculations; To find and analyze the median and mode of a set of data	Text, Mathia, Notes	Quiz 4-Mean, Median, Mode, Range;
4th Quarter				
Week 28 *March 18-22*	6.SP.2 6.SP.3 6.SP.4 6.SP.5 6.SP.5.b 6.SP.5.c	To construct and interpret a histogram; To identify the difference between a bar graph and a histogram; To find and use measures of variability to describe and compare data sets To relate the shape of a data display to how the data is distributed; To define bias; To identify a statistical question and to recognize and remove bias from statistical questions	Text, Mathia, Notes	Quiz 1 – Data
Week 29 *March 25-29* 3/29 No School (Good Friday)	6.EE.5 6.EE.6 6.EE.8 6.NS.7.d	To identify rational and irrational numbers;	Text, Mathia, Notes	Quiz 2 – Adding and Subtracting Integers

		To show that numbers are rational and to plot rational numbers on a number line; To compare and order rational numbers; adding and subtracting integers		
Easter Holidays				

Easter Holidays *March 29-05*				
Week 30 *April 08-12*	6.EE.5 6.EE.6 6.EE.8 6.NS.7.d	To identify rational and irrational numbers; To show that numbers are rational and to plot rational numbers on a number line; To compare and order rational numbers; Adding and Subtracting Integers	Text, Mathia, Notes	Test 1 – Adding and Subtracting Integers "MATH" Project
Week 31 *April 15-19*	6.EE.5 6.EE.6 6.EE.8 6.NS.7.d	To identify rational and irrational numbers; To show that numbers are rational and to plot rational numbers on a number line; To compare and order rational numbers; adding, subtracting, multiplying and dividing integers	Text, Mathia, Notes	Test 2 – Integer Operations
Week 32 *April 22-26*	6.EE.5 6.EE.6 6.EE.8 6.NS.7.d	To identify rational and irrational numbers; To show that numbers are rational and to plot rational numbers on a number line; To compare and order rational numbers; adding, subtracting, multiplying and dividing integers	Text, Mathia, Notes	Test #3 – Integer Board Game
Week 33 *April 29-03* 5/3 Field Day	6.EE.5 6.EE.6 6.EE.8 6.NS.7.d	To express and identify solutions of inequalities	Text, Mathia, Notes	Quiz 3 – Solving Inequalities
Week 34 *May 06-10*	6.EE.5	To solve one-step inequalities by adding or subtracting	Text, Mathia, Notes	Test 4 – Solving One-Step Inequalities
Week 35 *May 13-17*	6.G.1	Finding area of parallelograms, trapezoids, rectangles and irregular shapes	Text, Mathia, Notes	Quiz 4 – Area of Parallelograms, Trapezoids and Rectangles Activity
Week 36 *May 20-24* 5/20 End-of-year Mass 5/24 ½ day		End of Year Assessment/Review Stations	Text, Mathia, Notes	