Our Lady of the Lake Roman Catholic School
Yearly Course Outline
Math
Seventh Grade
2024–2025

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Teacher's Room Number: 204

Course Description

The Middle School math program strives to reinforce basic mathematical concepts and problem-solving skills, as well as introduce the students to the basics of algebra through hands-on experiences, online interaction, and everyday applications of algebraic concepts.

Instructional Materials

Carnegie Learning, Mathematics Course 2
Mathia
IXL
Pearson MyLab Math

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	30% Quizzes	B: 93-86
20% Quizzes	10% Homework	C: 85-78
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. **
Aug 8 – First day of school for 4th – 7th

Week	Standards	Objectives (The learner will . . .)	Instructional Materials	Assessments
1st Quarter				
Week 1 *Aug. 12-16*	7.NS.1.a 7.NS.1.b 7.NS.1.c 7.NS.1.d	PREASSESSMENT REVIEW OPERATIONS WITH FRACTIONS	Fraction Packet	Quiz 1-Fractions
Week 2 *Aug. 19-23*	7.NS.1.a 7.NS.1.b 7.NS.1.c 7.NS.1.d	write the quotients of integers as fractions and decimals (terminating and repeating)	Text, Mathia	Test 1-Fractions (Canvas)
Week 3 *Aug. 26-30*	7.NS.2.a 7.NS.2.b	Compare and order integers; identify and add opposites Add, subtract, multiply and divide integers	Text, Mathia	Quiz 2-Integers (Dragon Activity)
Week 4 *Sept. 3-6* 9/2 Labor Day No School	7.NS.2.b 7.NS.2.d 7.NS.1 7.NS.1.b 7.NS.1.c 7.NS.1.d 7.NS.3	Identify, compare, and order rational numbers Add and subtract rational numbers	Text, Mathia	Test 2-Integer Operations (Canvas)
Week 5 *Sept. 9-13*	7.NS.2 7.NS.2.a 7.NS.2.b 7.NS.2.c 7.NS.3	Use number lines and properties to illustrate and solve multiplication of rational numbers Use the rules of dividing rational numbers to divide and solve problems containing division of rational numbers Model real-life situations with number sentences Recognize and apply the order of operations	Text, Mathia	Quiz 3-Rational Numbers
Week 6 *Sept. 16-20*	7.EE.4 7.EE.1	identify differences between expressions and equations use bar models to write expressions and equations and to solve for unknown quantities model contextual and mathematical situations using double number lines	Text, Mathia	Test 3-Rational Numbers
Week 7 *Sept. 23-27* Spirit Week 9/27 Fun Run Kickoff	7.EE.4a	use inverse operations to solve equations using Properties of Equality eliminate fractional and decimal terms in equations using multiplication	Text, Mathia	Quiz 4-Expressions
Week 8 *Sept. 30-Oct. 3* *10/3 Living Rosary*	7.EE.1 7.EE.3	identify like terms combine like terms in linear expressions with rational coefficients	Text, Mathia	Test 4-Expressions and Equations

10/4 – No School				
Week 9 *Oct. 7-11* 10/11 - ½ day (Fun Run)		Exam Review	Text, Mathia	
2nd Quarter				
Week 10 *Oct. 14-18*	7.EE.1 7.EE.3	simplify expressions using number properties and combining like terms factor linear expressions using greatest common factor	Text, Mathia	Quiz 1-Combining Like Terms Activity
Week 11 *Oct. 21-25* 10/25 Fun Run Reward Day	7.EE.4a	write one step equations from tables and graphs write and solve one step equations to solve real world problems use multiple representations to analyze problem situations	Text, Mathia	Test 2-One Step Equations
Week 12 *Oct. 28-31* 11/2-OLL Festival	7.EE.2 7.EE.4a 7.EE.4	write two step equations from tables and graphs write and solve two step equations to solve real world problems use multiple representations to analyze problem situations	Text, Mathia	Quiz 2-Two-Step Equations
Week 13 *Nov. 4-8* 11/6 - 11/7 Saints Alive	7.EE.2 7.EE.4a 7.EE.4 7.EE.3	write two step equations from tables and graphs write and solve two step equations to solve real world problems use multiple representations to analyze problem situations to solve equations using the distributive property	Text, Mathia	Test 2-Equations and the distributive property
Week 14 *Nov. 11-15*	7.EE.4b	Solve and graph inequalities: adding, subtracting	Text, Mathia	Quiz 3-Inequalities
Week 15 *Nov. 18-22*	7.EE.4b	Solve and graph inequalities: multiplying, dividing	Text, Mathia	Test 3-One step Inequalities
Thanksgiving Holidays *Nov. 25-29*				
Week 16 *Dec. 2-6*	7.RP.1	recall the concepts of ratio and unit rate and how to represent these mathematical objects using tables and graphs use the unit rate as a measure of a qualitative characteristic determine ratios and write rates, including complex ratios and rates	Text, Mathia	Quiz 4-Unit Rate
Week 17 *Dec. 9-13*	7.RP.1	write proportions scale up and scale down to determine unknown quantities	Text, Mathia	Test 4- Ratio/Rate/Proportion
Week 18 *Dec. 16-20* 12/20 - ½ day		6th - 7th – Middle School Exams		

		Christmas Holidays *Dec. 21 – Jan. 5*		
		3rd Quarter		
Week 19 *Jan. 6-10*	7.EE.3 7.RP.3	To convert between fractions, decimals, and percent To use proportions to solve problems using percent	Text, Mathia	Quiz 1-FDP
Week 20 *Jan. 13-17*	7.RP.3	Solving percent problems using equations	Text, Mathia	Test 1-FDP, Part, Whole and Percent
Week 21 *Jan. 21-24* 1/20 - No School	7.RP.3	use proportions to solve percent problems use equations to solve percent problems involving tip, tax, commission, sale price	Text, Mathia	Quiz 2- Percent Proportion
Week 22 *Jan. 27-31* Catholic Schools Week 1/31 - Pep Rally	7.RP.3	use proportions to solve percent problems use equations to solve percent problems involving tip, tax, commission, sale price	Text, Mathia	Test 2-Daisy's Donuts
Week 23 *Feb. 3-7*	7.RP.3	use proportions to solve percent problems use equations to solve percent problems involving tip, tax, commission, sale price	Text, Mathia	Quiz 3-Simple Interest
Week 24 *Feb. 10-14*	7.RP.3	use proportions to solve percent problems use equations to solve percent problems involving tip, tax, commission, sale price	Text, Mathia	Test 3-Calculating Interest, Tip, and Tax
Week 25 *Feb. 17-21* *2/21 - Eve Parade*	7.G.5	To write and solve equations to find unknown angle measures	Text, Mathia	Quiz 4-Vocabulary and Angle Pairs
Week 26 *Feb. 24-28* 2/28 – ½ Day Grandparents Day	7.G.4	To find the area and circumference of a circle explore the relationship between the distance around and the distance across various circles explore the area of a circle in terms of its circumference solve problems using the formulas for the circumference and area for circles use the area of a circle formula and the circumference formula to solve for unknown measurements in real-world and mathematical problem	Text, Mathia	Test 4-Circles, Area, and Circumference
		Mardi Gras Holiday *March 3-7*		
Week 27 *March 10-14* 3/14 – ½ Day	7.G.3	To classify and draw three dimensional figures	Text, Mathia	Begin 3D project

4th Quarter				
Week 28 *March 17-21*	7.G.6	To find the surface area of prisms and cylinders using nets	Text, Mathia	Quiz 1- SA prisms and pyramids Test 1 – 3D Net Project
Week 29 *March 24-28*	7.G.4	To find the surface area of prisms and cylinders using nets	Text, Mathia	Quiz 2 – SA Cylinder Maze Test 2 – SA prisms, pyramids, and cubes
Week 30 *March 31 - Apr 4*	7.G.4	To find the volumes of prisms and cylinders	Text, Mathia	Test 3 – Volume of a Prism and Cylinder canvas
Week 31 *April 7-11*	7.SP.6 7.SP.7.b 7.SP.8.a 7.SP.8.b 7.SP.7 7.SP.8 7.SP.8.c	design and use simulations to estimate the probability of compound events make and use sample spaces and to use the fundamental counting principle find the probability of dependent and independent events contrast "and" and "or" compound events simulate the probability of compound events	Text, Mathia	Quiz 3 Probability Stations Quiz 4 Theoretical Probability – Canvas
Week 32 *April 14-17* 4/17 Passion Play 4/18 Good Friday	7.SP.6 7.SP.7.b 7.SP.8.a 7.SP.8.b 7.SP.7 7.SP.8 7.SP.8.c	design and use simulations to estimate the probability of compound events make and use sample spaces and to use the fundamental counting principle find the probability of dependent and independent events contrast "and" and "or" compound events simulate the probability of compound events	Text, Mathia	Test 4 Compound Probability - Canvas
Easter Holiday *April 21-25*				
Week 33 *April 28-May 2* 5/2 - Field Day ½ Day		Review Stations	Station Packet	
Week 34 *May 5-9* 5/6 May Crowning 5/8 7th Grade Closing Ceremony		Graduation		