Our Lady of the Lake Roman Catholic School Yearly Course Outline Pre-Algebra Seventh Grade 2023–2024

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Teacher's Room Number: 204

Course Description

The Pre-Algebra course introduces students to algebraic concepts, both theory and application, through hands-on experiences, modeling, and online interaction. This course focuses on the study of algebraic manipulation and graphical interpretations through the use of real-world problems.

Instructional Materials

Carnegie Learning, Mathematics Course 3 Pearsons MyLab Math Mathia IXL

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

Tentative Course Calendar

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

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	8.EE.5 8.EE.6	To find the slope of a line from a graph	Text/Mathia/Handouts	Quiz 2-Slope
Week 12	8.EE.6 8.F.1	or table;		
<i>Oct. 30-03</i>	8.F.3	To utilize the slope formula to find the slope of a line		
001.30-03	8.F.4	To use tables and equations to graph		
	0.1.4	linear functions		
Week 13	8.EE.5	To write function rules from words,	Text/Mathia/Handouts	Test 2-Slope and
Nov. 06-10	8.F.2	tables, and graphs;		Slope Intercept
11/6 No School	8.F.4	To compare properties of two functions		Form
(Formation		represented in different ways		1 onn
Day)				
11/7 Virtual				
(Senior Day)				
11/10 Virtual (OLL Festival)				
(OLL resuval)	8.EE.5	To find the slope of a line from a graph	Text/Mathia/Handouts	Test 3 – Stained
	8.EE.6	or table;	Text Watha Handouts	Glass Window
Week 14	8.F.1	To utilize the slope formula to find the		
Nov. 13-17	8.F.3	slope of a line		Project
	8.F.4	To use tables and equations to graph		
		linear functions		
Week 15	8.EE.8	To solve systems of two linear	Text/Mathia/Handouts	Quiz 3 – Solving
Nov. 27-30		equations in two variables by graphing		Systems by
100.27-30		the equations		Graphing
		Thanksgiving Holiday	ys	
		Nov. 21-25		
Week 16	8.EE.8	To solve a system of linear equations by	Text/Mathia/Handouts	Quiz 4-Solving
Dec. 04-08		substitution;		Systems of
12/8 –				Equations by
Immaculate Conception				Graphing and
School Mass				Substitution
and				
Nativity (7th)				
	8.EE.8	To solve a system of linear equations by	Text/Mathia/Handouts	Test 4-Systems of
Week 17		elimination;		Equations
Dec. 11-15		To use systems of linear equations to		(Graphing,
Dec. 11-15		solve real world problems		Substitution, and
				Elimination)
Week 18	EXAM	6-7 th – Middle School Exams	EXAM	*
Dec. 18-20	REVIEW/EXAM			
12/20 ½ day				
		Christmas Holidays		
		Dec. 21-05		
		3rd Quarter		
	8.EE.3	To write numbers in both standard	Text/Mathia/Handouts	Quiz 1-Scientific
Week 19		form and scientific notation; multiply		Notation &
Jan. 08-12		and divide exponents		Multiplying
				Exponents
	8.EE.4	To multiply and divide numbers in	Text/Mathia/Handouts	Test 1-
Week 20	8.EE.1	scientific notation		Multiplying and
Jan. 15-19	8.EE.3			Dividing with
1/15 No School				Scientific

Week 21 Jan. 22-26 Week 22 Jan. 29-02 Catholic Schools Week, 2/2 Pep Rally Week 23 Feb. 05-09 2/9 ½ day (Grandparents Day)	8.G.5 8.G.5 8.G.4 8.G.5 8.EE.6	To identify types of angles; To find angle measures using the relationship between angles; To identify parallel lines and the angles formed by parallel lines and transversals To identify types of angles; To find angle measures using the relationship between angles; To identify parallel lines and the angles formed by parallel lines and the angles formed by parallel lines and transversals To identify similar figures and to use proportions to find missing measurements in the similar figures; To determine measures of the angles of triangles and to use them to prove that	Text/Mathia/Handouts Text/Mathia/Handouts Text/Mathia/Handouts	Quiz 2- Vocabulary and Angle Pairs Test 2-Finding the Missing Angles Test 3- Congruence Statements and Congruent Triangles
Dujj		triangles are similar		i i i uiigites
		Mardi Gras Holidays Feb. 12-16	5	
Week 24 Feb. 19-23	8.G.4 8.G.5 8.EE.6	To find the interior and exterior angles of a polygon	Text/Mathia/Handouts	Quiz 3 – Interior/ Exterior Angle Maze
Week 25 Feb. 26-01	8.G.1.a 8.G.1.b 8.G.1.c 8.G.3	To graph and describe translations in the coordinate plane To graph reflections in the coordinate plane and to identify lines of symmetry To graph rotations and to identify rotational symmetry	Text/Mathia/Handouts	Quiz 4 – Translations and Reflections
Week 26 <i>Mar. 04-08</i>	8.G.3 8.G.4	To graph dilations and to determine the scale factor of a dilation	Text/Mathia/Handouts	
Week 27 <i>March 11-15</i>	8.G.3 8.G.4	To describe a sequence of transformations that maps one figure onto another to determine whether two figures are similar by using a sequence of transformations	Text/Mathia/Handouts	Test 4- Transformation Book Project Due
		4th Quarter		
Week 28 <i>March 18-22</i> 3/21 – Passion Play	8.G.9 8.G.7	To identify solids, parts of solids, and skew line segments; To find the volume of prisms and cylinders To find the volumes of pyramids and cones; To find the surface area and volume of a sphere	Text/Mathia/Handouts	Quiz 1-Volume of a Cylinder Test 1- Volume of Cylinder, Sphere, and Cone
Week 29 March 25-29 3/29 No School (Good Friday)	8.G.9 8.G.7	To identify solids, parts of solids, and skew line segments; To find the volume of prisms and cylinders To find the volumes of pyramids and cones; To find the surface area and volume of a sphere	Text/Mathia/Handouts	Quiz 2 – Volume of Cylinder, Cone, and Sphere Vocabulary Check

				Test 2-Design Your Own Ice Cream Shop				
		Easter Holidays		Cream Shop				
March 29-05								
Week 30 <i>April 08-12</i>	8.G.9 8.G.7	To identify solids, parts of solids, and skew line segments; To find the volume of prisms and cylinders To find the volumes of pyramids and cones; To find the surface area and volume of a sphere	Text/Mathia/Handouts	Quiz 3 – SA of a sphere				
Week 31 <i>April 15-19</i>		To identify Polynomials, use the FOIL method, factor binomials and trinomials	Text/Mathia/Handouts	Test #3 – Adding and Subtracting Polynomials				
Week 32 <i>April 22-26</i>		To identify Polynomials, use the FOIL method, factor binomials and trinomials	Text/Mathia/Handouts	Quiz 4-FOIL Task Cards Test 4 – Adding and Subtracting Polynomials and FOIL				
Week 33 April 29-03 5/3 Field Day		Review Stations	Text/Mathia/Handouts					
Week 34 <i>May 06-10</i> 5/6 – May Crowning 5/9 – 7th Closing Ceremony		Graduation						