Our Lady of the Lake Roman Catholic School
Yearly Course Outline
Math
Sixth Grade
2025–2026

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Course Description

This course is designed to build a strong foundation in mathematics for 6th grade students by developing their understanding of key mathematical concepts and their applications. Students will explore a range of topics including number operations, ratios and proportional relationships, expressions and equations, geometry, and data analysis.

The curriculum emphasizes problem-solving, critical thinking, and real-world applications. Students will engage in hands-on activities, collaborative projects, and technology-enhanced learning to deepen their conceptual understanding.

Major Units of Study:

- **Number Sense and Operations**: Understanding whole numbers, decimals, fractions, and integers; performing operations with multi-digit numbers and decimals.

- **Ratios and Proportional Relationships**: Identifying and solving problems involving ratios, rates, and percent.

- **Algebraic Thinking**: Writing and evaluating numerical expressions; understanding variables and solving one-step equations and inequalities.

- **Geometry**: Understanding area, surface area, volume, and properties of two- and three-dimensional shapes.

- **Statistics and Data**: Collecting, representing, and analyzing data; understanding measures of central tendency (mean, median, mode).

Instructional Materials

enVision Mathematics - Grade 6
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 (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 7 – First day of school for 4th – 7th

Week	Standards	Objectives (The learner will . . .)	Instructional Materials	Assessments
1st Quarter				
Week 1 *Aug. 11-15*	6.NS.A.1 6.NS.B.2 6.NS.B.3	1.1-1.3 -Add and subtract decimals with precision. -Multiply decimals. -Add, subtract, and multiply decimals to solve real-world problems. -Use place-value structure to divide whole numbers and decimals. -Divide whole numbers and decimals to solve real-world problems. -Use models to multiply fractions. -Multiply the numerators and then the denominators to find the product of two fractions. -Multiply mixed numbers.	enVision Mathematics (6th Grade)	-Homework
Week 2 *Aug. 18-22*	6.NS.A.1 6.NS.B.2 6.NS.B.3	Math Modeling (quiz), Quiz, 1.4 -Use mathematical modeling to represent a problem situation and to propose a solution. -Test and verify the appropriateness of their math models. -Explain why the results from their mathematical models may not align exactly to the problem situation.	enVision Mathematics (6th Grade)	-Homework -Math Modeling (Quiz) -Topic 1 Quiz (lessons 1-3)
Week 3 *Aug. 25-29*	6.NS.A.1	1.5 - 1.6 -Use models to divide fractions by fractions. -Use an algorithm to divide fractions by fractions. -Divide with mixed numbers. -Estimate the quotient of mixed numbers.	enVision Mathematics (6th Grade)	-Homework
Week 4 *Sept. 1-5* 9/1 Labor Day No School	6.NS.A.1 6.NS.B.2 6.NS.B.3	1.7, Test -Solve multistep problems with fractions and decimals	enVision Mathematics (6th Grade)	-Homework -Topic 1 Test: Positive Rational Numbers
Week 5 *Sept. 8-12*	6.NS.C.5 6.NS.C.6a 6.NS.C.6c 6.NS.C.7a 6.NS.C.7b 6.NS.C.7c 6.NS.C.7d	2.1 - 2.3, Project due (test) -Identify opposites of integers. -Compare and order integers. -Use integers to represent real-world quantities and explain the meaning of 0 in each context. -Plot rational numbers on a number line. -Compare and order rational numbers. -Use rational numbers to represent real-world quantities.	enVision Mathematics (6th Grade)	-Homework -Topic 1 Project due (Test)

		-Use absolute value to represent a number's distance from 0. -Interpret absolute value in real-world situations.		
Week 6 *Sept. 15-19* Spirit Week 9/19 Fun Run Kickoff	6.NS.C.5 6.NS.C.6a 6.NS.C.6b 6.NS.C.6c 6.NS.C.7a 6.NS.C.7b 6.NS.C.7c 6.NS.C.7d	Quiz, 2.4 -Identify and graph points with rational coordinates on the coordinate plane. -Reflect points with rational coordinates across both axes.	enVision Mathematics (6th Grade)	-Homework -Topic 2 Quiz (lessons 1-3)
Week 7 *Sept. 22-26*	6.NS.C.8 6.G.A.3	2.5 - 2.6 -Use absolute value to find the distance between two points that lie on the same horizontal or vertical line on a coordinate plane. -Solve real-world and mathematical problems involving distances on the coordinate plane. -Find side lengths of polygons on the coordinate plane. -Find the perimeter of polygons on the coordinate plane.	enVision Mathematics (6th Grade)	-Homework
Week 8 *Sept.29- Oct. 3* *10/2 – Fun Run* *10/2 - ½ day dismissal* *10/3 – Faculty Inservice*	6.NS.C.5 6.NS.C.6a 6.NS.C.6b 6.NS.C.6c 6.NS.C.7a 6.NS.C.7b 6.NS.C.7c 6.NS.C.7d 6.NS.C.8 6.G.A.3	Test, Project due (test)	enVision Mathematics (6th Grade)	-Homework -Topic 2 Test: Integers & Rational Numbers -Topic 2 Project due (Test)
Week 9 *Oct. 6-10* 10/10 - ½ day		Math Exam		-Mathia due (quiz grade) -Exam over Topic 1 & Topic 2
2nd Quarter				
Week 10 *Oct. 13-17*	6.EE.A.1 6.EE.A.2a 6.EE.A.2b 6.EE.A.3 6.EE.B.6 6.NS.B.4	3.1 - 3.4 -Write expressions using whole-number exponents to represent real-world and mathematical problems. -Evaluate expressions with whole-number exponents -Find the prime factorization of a whole number. -Find the GCF and the LCM of two whole numbers. -Use the GCF and the Distributive Property to add. -Use the GCF and LCM to solve problems.	enVision Mathematics (6th Grade)	-Homework

		-Evaluate expressions using the order of operations. -Insert grouping symbols in a numerical expression to affect the value of the expression. -Write an algebraic expression to model a pattern. -Write an algebraic expression from a word phrase. -Use precise mathematical language when identifying parts of an expression.		
Week 11 *Oct. 20-24* 10/24 Faculty Inservice 10/24-26 OLL Festival	6.EE.A.1 6.EE.A.2 6.EE.A.2c 6.EE.A.3 6.EE.A.4 6.NS.B.4 6.EE.B.6	Quiz, 3.5 - 3.6, Math Modeling (quiz) -Evaluate algebraic expressions, including those with whole numbers, decimals, and fractions. -Write equivalent algebraic expressions. -Identify equivalent algebraic expressions. -Justify whether two expressions are equivalent. -Use mathematical modeling to represent a problem situation and to propose a solution. -Test and verify the appropriateness of their math models. -Explain why the results from their mathematical models may not align exactly to the problem situation.	enVision Mathematics (6th Grade)	-Topic 2 Quiz (lessons 1-3) -Homework -Math Modeling (quiz grade)
Week 12 *Oct. 27-31* *10/31 – Fun Run Reward Day*	6.EE.A.3 6.EE.A.4	3.7 -Use problems of operations to simplify algebraic expressions by combining like terms.	enVision Mathematics (6th Grade)	-Homework
Week 13 *Nov. 3-7*	6.EE.A.1 6.EE.A.2 6.EE.A.2a 6.EE.A.2b 6.EE.A.2c 6.EE.A.3 6.EE.A.4 6.NS.B.4 6.EE.B.6 6.EE.B.5 6.EE.A.4 6.EE.B.7	Test, Project due (test), 4.1- 4.2 -Identify equations and variables. -Use substitution to find solutions to equations. -Use the properties of equality to keep both sides of an equation equal. -Identify which properties of equality are used to write equivalent equations.	enVision Mathematics (6th Grade)	-Topic 3 Test: Numeric & Algebraic Expressions -Project due (test) -Homework
Week 14 *Nov. 10-14*	6.EE.A.4 6.EE.B.5 6.EE.B.6 6.EE.B.7	4.3 - 4.4, Quiz -Write one-variable addition and subtraction equations. -Use inverse relationships and properties of equality to solve one-step addition and subtraction equations. -Write one-variable multiplication and division equations.	enVision Mathematics (6th Grade)	-Homework -Topic 4 Quiz (lessons 1-4)

		-Use inverse relationships and properties of equality to solve one-step multiplication and division equations.		
Week 15 *Nov. 17-21*	6.EE.B.5 6.EE.B.6 6.EE.B.7 6.EE.B.8	4.5 - 4.7 -write and solve equations that involve fractions, decimals, and mixed numbers. -Understand the symbols required to write an inequality. -Write inequalities to describe mathematical or real-world situations. -Describe solutions to an inequality. -Represent solutions to an inequality on a number line.	enVision Mathematics (6th Grade)	-Homework
Thanksgiving Holidays *Nov. 24-28*
Week 16 *Dec. 1-5*	6.EE.C.9	4.8 - 4.10 -Identify dependent variables. -Identify independent variables. -Analyze the relationships between variables using tables. -Write equations to represent the relationships between variables. -Analyze the relationship between dependent and independent variables using tables, graphs and equations.	enVision Mathematics (6th Grade)	-Homework
Week 17 Dec. 8-12	6.EE.A.4 6.EE.B.5 6.EE.B.6 6.EE.B.7 6.EE.B.8 6.EE.C.9	Test, Project due (test)	enVision Mathematics (6th Grade)	-Topic 4 Test: Represent and Solve Equations and Inequalities -Project due (test)
Week 18 *Dec. 15-19* 12/19 - ½ day		Math Exam		-Mathia due (quiz grade) -Exam over Topic 3 & Topic 4
Christmas Holidays *Dec. 22 – Jan. 4*
3rd Quarter
Week 19 *Jan. 5-9*	6.RP.A.1 6.RP.A.3 6.RP.A.3a	5.1-5.3 -Use ratios to describe the relationship between two quantities. -Use bar diagrams and double number line diagrams to model ratio relationships. -Use multiplication and division to find equivalent ratios. -Solve problems by finding equivalent ratios. -Use ratio tables to compare ratios. -Compare ratios to solve problems.	enVision Mathematics (6th Grade)	-Homework
Week 20 *Jan. 12-16*	6.RP.A.1 6.RP.A.3 6.RP.A.3a	5.4, Quiz -Represent equivalent ratios on graphs. -Use ratio tables and graphs to solve problems.	enVision Mathematics (6th Grade)	-Homework -Topic 5 Quiz (lessons 1-4)

Week	Standards	Lessons/Objectives	Resource	Assessment
Week 21 *Jan. 19-23* 1/19 – MLK Day No School	6.RP.A.2 6.RP.A.3a 6.RP.A.3b	5.5 - 5.6 -Use rates to describe ratios in which the terms have different units. -Use rates and unit rates to solve problems. -Use ratio reasoning to compare rates and solve problems.	enVision Mathematics (6th Grade)	-Homework
Week 22 *Jan. 26-30* Catholic Schools Week 1/30 - Pep Rally	6.RP.A.2 6.RP.A.3b 6.RP.A.3d	5.7 - 5.8, Math Modeling (Quiz) -Use unit rates to solve problems involving constant speed. -Use unit tastes to solve problems involving unit price. -Solve unit rate problems using an equation. -Use ratio reasoning and conversion factors to convert customary units of measure. -Use mathematical modeling to represent a problem situation and to propose a solution. -Test and verify the appropriateness of their math models. -Explain why the results from their mathematical models may not align exactly to the problem situation.	enVision Mathematics (6th Grade)	-Homework -Math Modeling (quiz)
Week 23 *Feb. 2-6*	6.RP.A.3d	5.9 - 5.10; Project due (test) -Use ratio reasoning and conversion factors to convert metric units of measure. -Use ratio reasoning and conversion factors to convert between customary and metric units of measure.	enVision Mathematics (6th Grade)	-Homework -Project due (test)
Week 24 *Feb. 9-13* 2/13– ½ Day Grandparents Day	6.RP.A.1 6.RP.A.2 6.RP.A.3 6.RP.A.3a 6.RP.A.3b 6.RP.A.3d 6.RP.A.3c	Test, 6.1-6.2 -Represent the percent of a whole. -Find the percent of a whole. -Write equivalent values as fractions, decimals, and percents. -Write fractions as decimals and percents when the denominators of the fraction is not 100.	enVision Mathematics (6th Grade)	-Homework -Topic 5 Test: Understand and Use Ratio and Rate
Mardi Gras Holiday February 16-20				
Week 25 *Feb. 23-27*	6.RP.A.3c	6.3, Quiz -Write percents that are greater than 100. -Write percents that are less than 1.	enVision Mathematics (6th Grade)	-Homework -Topic 6 Quiz (lessons 1-3)
Week 26 *March 2-6*	6.RP.A.3c	6.4 - 6.5, Projects due (test) -Estimate the percent of a number. -Use the decimal form of a percent to find the percent of a number. -Write an equation to solve a percent problem.	enVision Mathematics (6th Grade)	-Homework -Project due (test)
Week 27 *March 9-13* 3/13 – ½ Day	6.RP.A.3c	6.6, Test -Find the whole amount when given a part and the percent.	enVision Mathematics (6th Grade)	-Homework

				-Topic 6 Test: Understand and Use Percent -Mathia due (quiz)
4th Quarter				
Week 28 *March 16-20*	6.G.A.1 6.G.A.3 6.EE.A.2c 6.NS.C.6c 6.NS.C.8	7.1 - 7.4 -Use a formula to find the areas of parallelograms and rhombuses. -Find the base or height of a parallelogram or rhombus when the area and the height or base are known. -Find the areas of triangles, including right triangles. -Find the corresponding base or height of a triangle. -Find the areas of trapezoids. -Find the area of kites. -Find the areas of polygons by composing and decomposing shapes, including polygons on the coordinate plane.	enVision Mathematics (6th Grade)	-Homework
Week 29 *March 23-27* 3/26 – Passion Play	6.G.A.1 6.G.A.3 6.G.A.4 6.EE.A.2c 6.NS.C.6c 6.NS.C.8	Quiz, 7.5 -Classify solid figures. -Identify solid figures from nets. -Draw nets of solid figures.	enVision Mathematics (6th Grade)	-MAP IXLs (quiz) -Homework -Topic 7 Quiz (lessons 1-4)
Week 30 *Mar 30 - Apr 3* No Bus Service 4/3 – Good Friday	6.G.A.4 6.EE.A.2a 6.EE.A.2c 6.EE.B.6	7.6 - 7.8 -Find the surface area of rectangular prisms, including cubes. -Find the surface area of triangular prisms. -Find the surface area of square and triangular pyramids. -Use cubes and a formula to find the volume of a rectangular prism or a cube with fractional edge lengths.	enVision Mathematics (6th Grade)	-Homework
Easter Holiday ***April 3-10***				
Week 31 *April 13-17*	6.G.A.1 6.G.A.3 6.G.A.4 6.EE.A.2a 6.EE.A.2c 6.NS.C.6c 6.NS.C.8 6.SP.A.1 6.SP.A.3 6.SP.B.4 6.Sp.B.5c	Test, 8.1 - 8.2, Project due -Identify statistical questions. -Write statistical questions and display the collected data. -Determine the mean, median, mode, and range of a data set.	enVision Mathematics (6th Grade)	-Terra Nova Practice (test) -Topic 7 Test: Solve Area, Surface Area, and Volume Problems -Homework -Project due (test)

Week	Standards	Objectives	Resource	Assessment
Week 32 *April 20-24*	6.SP.B.4 6.SP.B.5a	8.3 - 8.4 -Display data in a dot box plot. -Interpret and analyze a box plot. -Organize data into equal intervals and display data in a frequency table or histogram. -Interpret and analyze a histogram.	enVision Mathematics (6th Grade)	-Homework
Week 33 *April 27 - May 1* 5/1 - Field Day ½ Day	6.SP.A.1 6.SP.A.3 6.SP.B.4 6.SP.B.5a 6.SP.B.5c	Quiz	enVision Mathematics (6th Grade)	-Topic 8 Quiz (lessons 1-4)
Week 34 *May 4-8* 5/5 May Crowning 5/7 – 7th Graduation	6.SP.A.2 6.SP.B.4 6.SPB.5b 6.SP.B.5c 6.SP.B.5d	8.5 - 8.7 -Calculate the MAD and IQR of a data set. -Summarize data using measures of variability. -Select the most appropriate measure of center and variability for a data set. -Use measures to describe data sets. -Describe the center, spread, and overall shape of a data set. -Summarize numerical data sets using measures of center and related measures of variability.	enVision Mathematics (6th Grade)	-Homework
Week 35 *May 11-15*	6.SP.A.1 6.SP.A.2 6.SP.A.3 6.SP.B.4 6.SP.B.5a 6.SPB.5b 6.SP.B.5c 6.SP.B.5d	Test	enVision Mathematics (6th Grade)	-Mathia due (quiz) -Topic 8 Test: Display, Describe, and Summarize Data
Week 36 *May 18-21* 5/21 ½ day				