

Our Lady of the Lake Roman Catholic School
Yearly Course Outline
Math
Sixth Grade
2026–2027

Teacher's Name: Meredith Singletary

Teacher's Email: msingletary@ourladyofthelakeschool.org **Teacher's Room Number:** 204

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)

50% Tests
20% Exams
20% Quizzes
10% Homework

3rd & 4th Quarters (No Exams taken)

60% Tests
30% Quizzes
10% Homework

Grading Scale

A: 100-94
B: 93-86
C: 85-78
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 6 – First day of school for 4th – 7th

Week	Standards	Objectives (The learner will . . .)	Instructional Materials	Assessments
1st Quarter				
Week 1 Aug. 10-14	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. 17-21 8/18 PTCC Mtg 6pm	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. 24-28	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 Aug 31-Sept 4	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. 7-11 9/7 Labor Day No School	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. 14-18 Spirit Week 9/18 Pep Rally and 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. 21-25 9/25 Birthday Brunch (July, Aug, Sept)	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. 28- Oct. 2 10/2 – Fun Run 10/2 - ½ day dismissal	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. 5-9 10/6-10/8 – Middle School Exams 10/8 End of 1 st Qtr 10/9 No School 10/9-10/11 Festival of the Lake		Math Exam		-IXL due (quiz grade) -Exam over Topic 1 & Topic 2
2nd Quarter				
Week 10 Oct. 12-16 10/13 Living Rosary 10/15 CFR Reward Day 10/15 - ½ Day 10/15 - Parent Teacher Conferences 10/16 – No School	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.	enVision Mathematics (6th Grade)	-Homework

		-Use the GCF and LCM to solve problems. -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. 19-23	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. 26-30 <i>Red Ribbon Week</i>	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. 2-6	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. 9-13 11/11 Veterans Day Prayer Service	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. 16-20 St. Nick's Workshop	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. 23-27				
Week 16 Nov 30-Dec 4 12/4 Birthday Brunch (Oct, Nov, Dec)	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. 7-11	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. 14-18 12/15-12/17 – Middle School Exams 12/18 - ½ day End of 2nd Qtr		Math Exam		-IXL due (quiz grade) -Exam over Topic 3 & Topic 4
Christmas Holidays Dec. 21 – Jan. 4				
3rd Quarter				
Week 19 Jan. 4-8 ¼ - No School	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 21 Jan. 18-22 1/18 – MLK Day No School 1/22 Birthday Brunch (Jan, Feb, Mar)	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. 25-29 1/29 - Pep Rally 1/29 – Eve Parade	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 rates 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. 1-5 Catholic Schools Week 2/5 Grandparents Day 2/5 – ½ Day	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)
Mardi Gras Holiday February 8-12				
Week 24 Feb. 15-19	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
Week 25 Feb. 22-26	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 1-5 Book Fair	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 8-12 3/12 – ½ Day End of 3 rd Qtr	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 15-19 3/18 - Passion Play	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 22-26 3/26 - Good Friday	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)
Easter Holiday March 26 – April 2				
Week 30 April 5-9	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
Week 31 April 12-16	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 32 April 19-23 4/23 Birthday Brunch (Apr, May, June)	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 26 - 30 4/30 - 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 3-7 5/4 May Crowning 5/6 – 7 th Closing Ceremony	6.SP.A.2 6.SP.B.4 6.SP.B.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 10-14	6.SP.A.1 6.SP.A.2 6.SP.A.3 6.SP.B.4 6.SP.B.5a 6.SP.B.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 17-21 5/19 – Grades Due				