

**Our Lady of the Lake Roman Catholic School**  
**Yearly Course Outline**  
**Pre-Algebra**  
**Seventh Grade**  
**2026–2027**

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**Course Description**

Pre-Algebra serves as a critical bridge between arithmetic and algebra, laying the foundation for success in Algebra I and beyond. This course is designed to deepen students' understanding of mathematical concepts through the exploration of integers, rational numbers, expressions, equations, and basic functions.

Students will develop strong problem-solving skills and gain confidence in applying mathematical reasoning in both abstract and real-world contexts. The course emphasizes conceptual understanding, fluency with operations, and the ability to represent mathematical relationships through expressions, equations, and graphs.

**Major Units of Study:**

- **Number Systems:** Integers, fractions, decimals, and rational numbers; operations and order of operations.
- **Expressions and Equations:** Simplifying expressions; solving one- and two-step equations and inequalities.
- **Ratios, Proportions, and Percents:** Solving problems involving proportional relationships, percent increase/decrease, and real-world applications like tax and discounts.
- **Geometry:** Area, surface area, volume, and understanding angles and transformations.
- **Statistics and Probability:** Interpreting data, calculating measures of central tendency, and exploring basic probability.
- **Introduction to Functions and Graphing:** Understanding coordinate planes, graphing linear relationships, and recognizing patterns.

**Instructional Materials**

enVision Mathematics - Grade 8

IXL

## Methods of Assessment and Distribution

All test, quiz, and homework grades will be posted on PowerSchool ([www.ollpowerschool.org](http://www.ollpowerschool.org)). Please check for postings frequently. Each quarter, four test-, 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: 100-90  
B: 89-80  
C: 79-70  
D: 69-60  
U: 59 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 4<sup>th</sup> – 7<sup>th</sup>

| Week                                                             | Standards                                                            | Objectives<br>(The learner will . . .)                                                                                                                                                                                                                                                                                                                                                                                                          | Instructional<br>Materials       | Assessments                               |
|------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------|
| <b>1st Quarter</b>                                               |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                                           |
| <b>Week 1</b><br><b>Aug. 10-14</b>                               | 8.NS.A.1<br>8.NS.A.2<br>8.EE.A.2                                     | 1.1 - 1.4<br>-Locate repeating decimals on a number line.<br>-Write repeating decimals as fractions.<br>-Classify a number as rational or irrational.<br>-Understand the concepts of square roots and perfect squares.<br>Approximate square roots by using perfect squares.<br>-Compare and order rational and irrational numbers.<br>-Evaluate square roots and cube roots to solve problems.<br>-Evaluate perfect squares and perfect cubes. | enVision Mathematics (8th Grade) | -Homework                                 |
| <b>Week 2</b><br><b>Aug. 17-21</b><br>8/18 PTCC Mtg<br>6pm       | 8.NS.A.1<br>8.NS.A.2<br>8.EE.A.1<br>8.EE.A.2                         | 1.5 - 1.6, Quiz<br>-Solve equations involving perfect squares or cubes.<br>-Solve equations involving imperfect squares or cubes.<br>-Multiply and divide expressions with integer exponents.<br>-Find the power of a power.                                                                                                                                                                                                                    | enVision Mathematics (8th Grade) | -Homework<br>-Topic 1 Quiz (lessons 1-5)  |
| <b>Week 3</b><br><b>Aug. 24-28</b>                               | 8.EE.A.1<br>8.EE.A.3<br>8.EE.A.4                                     | 1.7 - 1.9, Math Modeling (quiz)<br>-Simplify exponential expressions using the Zero Exponent Property and the Negative Exponent Property.<br>-Estimate and compare very large and very small quantities using powers of 10.<br>-Write very large and very small numbers in scientific notation.<br>-Convert scientific notation to standard form.                                                                                               | enVision Mathematics (8th Grade) | -Homework<br>-Math Modeling (quiz)        |
| <b>Week 4</b><br><b>Aug 31-Sept 4</b>                            | 8.NS.A.1<br>8.NS.A.2<br>8.EE.A.1<br>8.EE.A.2<br>8.EE.A.3<br>8.EE.A.4 | 1.10, Test<br>-Add, subtract, multiply, and divide numbers in scientific notation.                                                                                                                                                                                                                                                                                                                                                              | enVision Mathematics (8th Grade) | -Homework<br>-Topic 1 Test (Real Numbers) |
| <b>Week 5</b><br><b>Sept. 7-11</b><br>9/7 Labor Day<br>No School | 8.EE.C.7a<br>8.EE.C.7b                                               | 2.1 - 2.4, Project due (test)<br>-Combine like terms.<br>-Solve equations with like terms on one side of the equation.<br>-Make sense of scenarios and represent them with equations.<br>-Solve equations with like terms on both sides of the equation.                                                                                                                                                                                        | enVision Mathematics (8th Grade) | -Homework<br>-Project due (test)          |

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|                                                                                                                                                                |                                                | <ul style="list-style-type: none"> <li>-Make sense of scenarios and represent them with equations.</li> <li>-Plan multiple solution pathways and choose one to find the solution.</li> <li>-Determine the number of solutions to an equation.</li> </ul>                                                                                                                                                                                                                                                                                               |                                  |                                                                                    |
| <b>Week 6</b><br><b>Sept. 14-18</b><br>Spirit Week<br>9/18 Pep Rally and Fun Run Kickoff                                                                       | 8.EE.B.5<br>8.EE.C.7a<br>8.EE.C.7b             | 2.5, Quiz<br>-Analyze equations, linear graphs, and tables to find unit rates and compare proportional relationships.                                                                                                                                                                                                                                                                                                                                                                                                                                  | enVision Mathematics (8th Grade) | -Homework<br>-Topic 2 Quiz (lessons 1-4)                                           |
| <b>Week 7</b><br><b>Sept. 21-25</b><br>9/25<br>Birthday Brunch (July, Aug, Sept)                                                                               | 8.EE.B.6                                       | 2.6 - 2.8<br>-Find the slope of a line using different strategies.<br>-Interpret a slope in context and relate it to steepness on a graph.<br>-Understand how the constant of proportionality and the slope relate in a linear equation.<br>-Write a linear equation in the form $y=mx$ when the slope is given.<br>-Graph a linear equation in the form $y=mx$ .<br>-Interpret and extend the table or graph of a linear relationship to find its y-intercept.<br>-Analyze graphs in context to determine and explain the meaning of the y-intercept. | enVision Mathematics (8th Grade) | -Homework                                                                          |
| <b>Week 8</b><br><b>Sept.28- Oct. 2</b><br>10/2 – Fun Run<br>10/2 - ½ day dismissal                                                                            | 8.EE.B.5<br>8.EE.B.6<br>8.EE.C.7a<br>8.EE.C.7b | 2.9, Test<br>-Graph a line from an equation in the form $y = mx + b$ .<br>-Write an equation that represents the given graph of a line.                                                                                                                                                                                                                                                                                                                                                                                                                | enVision Mathematics (8th Grade) | -Homework<br>-Topic 2 Test (Analyze and Solve Linear Equations)                    |
| <b>Week 9</b><br><b>Oct. 5-9</b><br>10/6-10/8 – Middle School Exams<br>10/8 End of 1 <sup>st</sup> Qtr<br>10/9 No School<br>10/9-10/11 Festival of the Lake    |                                                | Math Exam, Topic 2 Project due (test)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  | -MathLab due (quiz)<br>-Topic 2 Project due (test)<br>-Exam over Topic 1 & Topic 2 |
| <b>2nd Quarter</b>                                                                                                                                             |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                                                                    |
| <b>Week 10</b><br><b>Oct. 12-16</b><br>10/13 Living Rosary<br>10/15 CFR Reward Day<br>10/15 - ½ Day<br>10/15 - Parent Teacher Conferences<br>10/16 – No School | 8.F.A.1<br>8.F.A.2<br>8.F.A.3                  | 3.1 - 3.3<br>-Identify whether a relation is a function.<br>-Interpret a function.<br>-Identify functions in different representations: equations, tables, and graphs.<br>-Identify linear and nonlinear functions in different representations.<br>-Compare proportions of linear functions in different representations.<br>-Compare properties of linear and nonlinear functions in different representations.                                                                                                                                      | enVision Mathematics (8th Grade) | -Homework                                                                          |

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| <b>Week 11</b><br><b>Oct. 19-23</b>                                              | 8.F.A.1<br>8.F.A.2<br>8.F.A.3<br>8.F.B.4               | 3-4, Quiz<br>-Construct a linear function to model a relationship using an equation in the form $y = mx + b$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | enVision Mathematics (8th Grade) | -Homework<br>-Topic 3 Quiz (lessons 1-3)                                                   |
| <b>Week 12</b><br><b>Oct. 26-30</b><br><i>Red Ribbon Week</i>                    | 8.F.B.5                                                | 3-5<br>-Describe qualitatively the behavior of a function by analyzing its graph.<br>-Describe the graph of a function at each interval.                                                                                                                                                                                                                                                                                                                                                                                                                                              | enVision Mathematics (8th Grade) | -Homework                                                                                  |
| <b>Week 13</b><br><b>Nov. 2-6</b>                                                | 8.F.A.1<br>8.F.A.2<br>8.F.A.3<br>8.F.B.4<br>8.F.B.5    | 3-6, Math Modeling (quiz), Test<br>-Draw a qualitative graph of a function based on a verbal description.<br>-Analyze and interpret the sketch of a graph of a function.<br>-Use mathematical modeling to represent a problem situation and to propose a solution.<br>-Test and verify the appropriateness of their math models.<br>-Explain why the results from their mathematical models may not align exactly to the problem situation.                                                                                                                                           | enVision Mathematics (8th Grade) | -Homework<br>-Math Modeling (quiz)<br>-Topic 3 Test (Use Functions to Model Relationships) |
| <b>Week 14</b><br><b>Nov. 9-13</b><br>11/11 Veterans Day<br>Prayer Service       | 8.SP.A.1<br>8.SP.A.2<br>8.SP.A.3<br>8.F.A.3<br>8.F.B.4 | 4.1 - 4.3, Topic 3 Project due (test)<br>-Construct a scatter plot graph to model paired data.<br>-Utilize a scatter plot to identify and interpret the relationship between paired data.<br>-Recognize whether the paired data has a linear association, or no association.<br>-Draw a trend line to determine whether a linear association is positive or negative and strong or weak.<br>-Use the slope and y-intercept of a trend line to make a prediction.<br>-Make a prediction when no equation is given by drawing trend lines and writing the equation of the linear model. | enVision Mathematics (8th Grade) | -Homework<br>-Topic 3 Project due (test)                                                   |
| <b>Week 15</b><br><b>Nov. 16-20</b><br>St. Nick's Workshop                       | 8.SP.A.1<br>8.SP.A.2<br>8.SP.A.3<br>8.F.A.3<br>8.F.B.4 | Quiz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | enVision Mathematics (8th Grade) | -Topic 4 Quiz (lessons 1-3)                                                                |
| <b>Thanksgiving Holidays</b><br><b>Nov. 23-27</b>                                |                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                                                                            |
| <b>Week 16</b><br><b>Nov 30-Dec 4</b><br>12/4<br>Birthday Brunch (Oct, Nov, Dec) | 8.SP.A.4                                               | 4.4 - 4.5<br>-Organize paired categorical data into a two-way frequency table.<br>-Compare and make conjectures about data displayed in a two-way frequency table.<br>-Construct two-way frequency tables and two-way relative frequency tables.                                                                                                                                                                                                                                                                                                                                      | enVision Mathematics (8th Grade) | -Homework                                                                                  |

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|                                                                                                                               |                                                                    | -Compare and make conjectures about data displayed in a two-way relative frequency table.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |                                                                       |
| <b>Week 17</b><br><b>Dec. 7-11</b>                                                                                            | 8.SP.A.1<br>8.SP.A.2<br>8.SP.A.3<br>8.SP.A.4<br>8.F.A.3<br>8.F.B.4 | Test, Topic 4 Project due (test)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | enVision Mathematics (8th Grade) | -Topic 4 Test (Investigate Bivariate Data)<br>-Topic 4 Project (test) |
| <b>Week 18</b><br><b>Dec. 14-18</b><br>12/15-12/17 – Middle School Exams<br>12/18 - ½ day<br><b>End of 2<sup>nd</sup> Qtr</b> |                                                                    | Math Exam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  | -MathLab due (quiz grade)<br>-Exam over Topic 3 & Topic 4             |
| <b>Christmas Holidays</b><br><b>Dec. 21 – Jan. 4</b>                                                                          |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                                                       |
| <b>3rd Quarter</b>                                                                                                            |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                                                       |
| <b>Week 19</b><br><b>Jan. 4-8</b><br>¼ - No School                                                                            | 8.EE.C.8a<br>8.EE.C.8b<br>8.EE.C.8c                                | 5.1 - 5.3<br>-Examine graphs of linear systems of equations to determine the number of solutions, based on the number of intersection points.<br>-Compare the equations in a linear system to look for a relationship between the number of solutions and the slopes and y-intercepts of the equations.<br>-Create and examine graphs of linear systems of equations to determine the solution.<br>-Understand how substitution can be used to solve a linear system of equations.<br>-Apply this understanding to solve a system of linear equations with one solution, no solutions, or infinitely many solutions. | enVision Mathematics (8th Grade) | -Homework                                                             |
| <b>Week 20</b><br><b>Jan. 12-16</b>                                                                                           | 8.EE.C.8<br>8.EE.C.8b<br>8.EE.C.8c<br>8.SP.A.3<br>8.F.B.4          | 5.4, Quiz<br>-Understand how the process of elimination can be used to solve a system of linear equations with no solution, one solution, or infinitely many solutions.<br>-Apply this understanding to solve mathematical and real-world problems.                                                                                                                                                                                                                                                                                                                                                                  | enVision Mathematics (8th Grade) | -Homework<br>-Topic 5 Quiz (lessons 1-2)                              |
| <b>Week 21</b><br><b>Jan. 18-22</b><br>1/18 – MLK Day<br>No School<br>1/22<br>Birthday Brunch (Jan, Feb, Mar)                 | 8.EE.C.8<br>8.EE.C.8b<br>8.EE.C.8c<br>8.SP.A.3<br>8.F.B.4          | Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | enVision Mathematics (8th Grade) | -Topic 5 Test (Analyze and Solve Systems of Linear Equations)         |

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| <b>Week 22</b><br><b>Jan. 25-29</b><br>1/29 - Pep Rally<br>1/29 – Eve Parade                            | 8.G.A.1a<br>8.G.A.1b<br>8.G.A.1c<br>8.G.A.3                       | 6.1 - 6.3, Topic 5 Project due (test)<br>-Understand translations.<br>-Translate a figure on a coordinate plane.<br>-Describe a translation.<br>-Understand and describe a reflection.<br>-Reflect two-dimensional figures.<br>-Identify and perform a rotation.<br>-Determine how a rotation affects a two-dimensional figure.                                                                                                 | enVision<br>Mathematics (8th<br>Grade) | -Homework<br>-Topic 5 Project<br>due (test)                                 |
| <b>Week 23</b><br><b>Feb. 1-5</b><br>Catholic Schools<br>Week<br>2/5 Grandparents<br>Day<br>2/5 – ½ Day | 8.G.A.1a<br>8.G.A.1b<br>8.G.A.1c<br>8.G.A.2<br>8.G.A.3            | 6.4 - 6.5, Quiz<br>-Understand a sequence of transformations.<br>-Describe and perform a sequence of transformations.<br>-Understand congruence of figures using a series of transformations.<br>-Identify congruent figures                                                                                                                                                                                                    | enVision<br>Mathematics (8th<br>Grade) | -Homework<br>-Topic 6 Quiz<br>(lessons 1-4)                                 |
| <b>Mardi Gras Holiday</b><br><b>February 8-12</b>                                                       |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |                                                                             |
| <b>Week 24</b><br><b>Feb. 15-19</b>                                                                     | 8.G.A.1a<br>8.G.A.1b<br>8.G.A.1c<br>8.G.A.2<br>8.G.A.3<br>8.G.A.4 | 6.6 - 6.7, Test<br>-Understand dilations<br>-Dilate to enlarge or reduce a figure in a coordinate plane.<br>-Understand similarity<br>-Complete a similarity transformation.<br>-Identify similar figures.                                                                                                                                                                                                                      | enVision<br>Mathematics (8th<br>Grade) | -Homework<br>-Topic 6 Test<br>(Congruence and<br>Similarity-lessons<br>1-7) |
| <b>Week 25</b><br><b>Feb. 22-26</b>                                                                     | 8.G.A.5                                                           | 6.8 - 6.10, Topic 6 Project due (test)<br>-Understand the relationships of angles formed by parallel lines and a transversal.<br>-Find unknown angle measures.<br>-Understand the relationship of the interior angles of a triangle.<br>-Find unknown angle measures.<br>-Determine whether triangles are similar.<br>-Solve problems involving similar triangles.                                                              | enVision<br>Mathematics (8th<br>Grade) | -Homework<br>-Topic 6 Project<br>due (test)                                 |
| <b>Week 26</b><br><b>March 1-5</b><br>Book Fair                                                         | 8.G.A.5                                                           | Quiz                                                                                                                                                                                                                                                                                                                                                                                                                            | enVision<br>Mathematics (8th<br>Grade) | -Topic 6 Quiz<br>(lessons 8-10)                                             |
| <b>Week 27</b><br><b>March 8-12</b><br>3/12 – ½ Day<br>End of 3 <sup>rd</sup> Qtr                       | 8.G.B.6<br>8.G.B.7                                                | *Start teaching for 4th Q*<br>7.1 - 7.2<br>-Understand the Pythagorean Theorem.<br>-Given two side lengths of a right triangle, use the Pythagorean to find the length of the third side.<br>-Understand why the Converse of the Pythagorean Theorem is true.<br>-Apply the Converse of the Pythagorean Theorem to identify right triangles.<br>-Use the Converse of the Pythagorean Theorem to analyze two-dimensional shapes. | enVision<br>Mathematics (8th<br>Grade) | -MathLab due<br>(quiz grade)<br>-Homework (4th<br>Q)                        |

| 4th Quarter                                                                      |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                     |
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| <b>Week 28</b><br><b>March 15-19</b><br>3/18 - Passion Play                      | 8.G.B.6<br>8.G.B.7<br>8.G.B.8            | 7.3 - 7.4, Quiz<br>-Apply the Pythagorean Theorem and its converse to solve real-world problems.<br>-Apply the Pythagorean Theorem to solve problems that involve three dimensions.<br>-Apply the Pythagorean Theorem to find the distance between two points on a map or coordinate plane.<br>-Find the perimeter of a figure on a coordinate plane.<br>-Identify the coordinates of the third vertex of a triangle on the coordinate plane.                                             | enVision Mathematics (8th Grade) | -Homework<br>-Topic 7 Quiz (lessons 1-2)                                                            |
| <b>Week 29</b><br><b>March 22-26</b><br>3/26 - Good Friday                       | 8.G.B.6<br>8.G.B.7<br>8.G.B.8<br>8.G.C.9 | 8.1, Topic 7 Test<br>-Find the surface areas of cylinders, cones, and spheres.                                                                                                                                                                                                                                                                                                                                                                                                            | enVision Mathematics (8th Grade) | -Homework<br>-Topic 7 Test (Understand and Apply the Pythagorean Theorem)                           |
| Easter Holiday<br>March 26 – April 2                                             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                     |
| <b>Week 30</b><br><b>April 5-9</b>                                               | 8.G.C.9                                  | 8.2, Quiz<br>-Recognize the relationship between the volume of a rectangular prism and the volume of a cylinder.<br>-Solve real-world problems involving the volume of a cylinder.<br>-Use the formula for the volume of a cylinder to find an unknown measure.                                                                                                                                                                                                                           | enVision Mathematics (8th Grade) | -Homework<br>-Topic 8 Quiz (lessons 1-2)                                                            |
| <b>Week 31</b><br><b>April 12-16</b>                                             | 8.G.C.9                                  | 8.3 - 8.4<br>-Recognize the relationship between the volume of a cylinder and the volume of a cone.<br>-Use the Pythagorean Theorem when solving volume problems.<br>-Find the volume of a cone. Given the circumference of the base, find the volume of a cone.<br>-Recognize the relationship between the volume of a cone and the volume of a sphere.<br>-Find the volume of a sphere. Given the surface area, find the volume of a sphere.<br>-Find the volume of a composite figure. | enVision Mathematics (8th Grade) | -Terra Nova Practice (test grade)<br>-Homework                                                      |
| <b>Week 32</b><br><b>April 19-23</b><br>4/23<br>Birthday Brunch (Apr, May, June) | 8.G.C.9                                  | Topic 8 Test, Topic 8 Project due                                                                                                                                                                                                                                                                                                                                                                                                                                                         | enVision Mathematics (8th Grade) | -MAP IXLs Practice (quiz grade)<br>-Topic 8 Test (Solve Problems Involving Surface Area and Volume) |



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|                                                                                                   |  |                            |  | -Topic 8 Project<br>due (test) |
| <b>Week 33</b><br><b>April 26 - 30</b><br>4/30 - Field Day<br>½ Day                               |  |                            |  | -MathLab due<br>(quiz grade)   |
| <b>Week 34</b><br><b>May 3-7</b><br>5/4 May Crowning<br>5/6 – 7 <sup>th</sup> Closing<br>Ceremony |  | 7 <sup>th</sup> grade done |  |                                |
| <b>Week 35</b><br><b>May 10-14</b>                                                                |  | 7 <sup>th</sup> grade done |  |                                |
| <b>Week 36</b><br><b>May 17-21</b><br>5/19 – Grades Due                                           |  | 7 <sup>th</sup> grade done |  |                                |