



LINCOLN-WOODSTOCK COOPERATIVE SCHOOL DISTRICT COURSE SYLLABUS

Course Name: Grade 6 Math

Semester: Full Year

Teacher: J. Wilson

Course Description: This grade 6 math course develops students' understanding of key mathematical concepts through problem-based learning, visual models and interactive digital resources. Topics include fractions, decimals, and integers; expressions and equations; ratios and rates; area and volume; and statistics. The program emphasizes conceptual understanding, procedural fluency, and real-world application to build strong mathematical reasoning skills and confidence.

Competencies or Standards Assessed:

CCSS Mathematics Major Clusters *(there are several standards addressed within each major cluster)*:

- 6. NS.A Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
- 6.NS.B Compute fluently with multi-digit numbers and find common factors and multiples.
- 6.NS.C Apply and extend previous understandings of numbers to the system of rational numbers.
- 6. EE.A Apply and extend previous understandings of arithmetic to algebraic expressions.
- 6.EE.B Reason about and solve one-variable equations and inequalities
- 6.EE.C Represent and analyze quantitative relationships between dependent and independent variables.
- 6. RP.A Understand ratio concepts and use ratio reasoning to solve problems.
- 6G.A Solve real-world and mathematical problems involving area, surface area, and volume.
- 6. SP.A Develop an understanding of statistical variability.
- 6SP.B Summarize and describe distributions.

Math Practices (competencies)

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Anchor Texts or Major Curriculum:

The program and anchor text used is enVision Math 2.0, grade 6, Scott Foresman/Addison Wesley, which includes problem-based learning, visual models, and interactive digital resources. Several additional resources are used throughout the year within this course.

Course Outline (major units of study):	
Unit Title	Essential Question or Overarching Understanding
Topic 1- Positive Rational Numbers	How can you fluently add, subtract, multiply, and divide decimals? How can you multiply and divide fractions?
Topic 2- Integers and Rational Numbers	What are integers and rational numbers? How are points graphed on a coordinate plane?
Topic 3- Numeric and Algebraic Equations	What are expressions, and how can they be written and evaluated?
Topic 4- Represent and Solve Equations and Inequalities	What procedures can be used to write and solve equations and inequalities?
Topic 5- Use Ratio and Rate	What are ratios and rates? How can you use ratios and rates to describe quantities and solve problems?
Topic 6- Use Percent	What is the meaning of percent? How can a percent be estimated and found?
Topic 7- Solve Area, Surface Area, and Volume Problems	How can the areas of certain shapes be found? What are the meanings of surface area and volume, and how can surface area and volume be found?
Topic 8- Display, Describe, and Summarize Data	How can data be described by a single number? How can tables and graphs be used to represent data and answer questions?

Portrait of a Learner

Independent Learner

I make thoughtful plans and do my best to reach personal goals using feedback to work through challenges.

Responsible Collaborator

I work with others to achieve shared goals by listening actively, contributing ideas, and managing conflict.

Critical Thinker

I analyze information, ask thoughtful questions, and apply reasoning skills to solve problems and make decisions.



LINCOLN-WOODSTOCK COOPERATIVE SCHOOL DISTRICT COURSE SYLLABUS

Effective Communicator

I express ideas clearly, adapting strategies based on the audience, setting, and/or purpose.

Global Citizen

I show that I care and take responsibility by helping in my community and the world around me.

Additional Classroom Expectations:

- Come prepared with supplies and homework
- Be respectful
- Be responsible
- Try your very best
- Make mistakes! Making mistakes is not a bad thing! It means that you are trying to learn something new!