



5th Grade Mathematics Syllabus

Ms. Rieck

Assignments : All assignments are written on the classroom board. It is expected that students use an assignment notebook to keep track of all assignments.

Mathematics Units of Study:

Unit 1: Expressions, Equations and Volume

- Operations and Algebraic Thinking and Numbers and Operations in Base Ten power standards practiced and assessed.

Unit 2: Adding and Subtracting Fractions

- Fractions power standards practiced and assessed.

Unit 3: Place Value and Decimals

- Numbers and Operations in Base Ten and Measurement and Data power standards practiced and assessed.

Unit 4: Multiplying and Dividing Whole Numbers and Decimals

- Numbers and Operations in Base Ten power standards practiced and assessed.

Unit 5: Multiplying and Dividing Fractions

- Fractions power standards practiced and assessed.

Unit 6: Graphing, Geometry and Volume

- Geometry, Measurement and Data, and Fractions power standards practiced and assessed.

Unit 7: Division and Decimals

- Numbers and Operations in Base Ten and Fractions power standards practiced and assessed.

Grade 5 Mathematics will provide students with various opportunities to develop the content standards and mathematical practice standards in a collaborative learning environment.

Bridges in Mathematics Grade 5 develops students' mathematical thinking and reasoning abilities through developmentally appropriate problems and investigations in numbers, operations, algebraic thinking, measurement, data, and geometry. Students are encouraged to explore, develop, discuss, and apply ideas to see mathematics as relevant!

This year, students will focus on three areas: (1) developing fluency with addition and subtraction of fractions and developing an understanding of the multiplication of fractions and division of fractions (unit fractions and whole numbers); (2) extending division to 2 digit divisors, integrating decimal fractions into the place value system and developing understanding of operations with decimals to hundredths, and developing fluency with whole number and decimals operations; and finally (3) developing understanding of volume.

Number Corner is an essential part of our mathematics curriculum. The Number Corner is a collection of quick (no more than 20 minutes) daily activities that use our classroom calendar and growing collections. The daily display engages students to contribute to a math-rich environment that promotes procedural fluency and conceptual understanding. Standards in the Number Corner are often not assessed as power standards but are crucial to developing the content power standards and mathematical practices.

The mathematics in grade five addresses the Common Core State Standards (CCSS). It weaves the standards for content and practice in ways that support learning. Bridges Grade Five allows students to model and employ mathematical practices to deepen their understanding as they engage in new mathematical content. I intend to foster a collaborative learning environment, creating lifelong problem solvers!

If you have any further questions, please reach out! jrieck@stjohn23rd.school

5th Grade Mathematics Priority Standards:

- **Operations and Algebraic Thinking**
 - 5.M.OA.1 Uses parenthesis, brackets, or braces in numerical expressions.
 - 5.M.OA.2 Writes and interprets simple expressions.
- **Numbers and Operations in Base Ten**
 - 5.M.NBT.2 Uses whole number exponents to denote powers of ten.
 - 5.M.NBT.6 Fluently multiply multi-digit whole numbers.
 - 5.M.NBT.8 Divides whole numbers by up to two digit divisors.
 - 5.M.NBT.11 Computes decimals to the hundredths' place using four operations.
- **Measurement and Data**
 - 5.M.MD.1 Converts units of measurement.
 - 5.M.MD.7 Solves problems using volume.

- **Geometry**
 - 5.M.G.1. Graphs points on a coordinate plane.
 - 5.M.G.6. Classifies two-dimensional figures.
- **Numbers and Operations - Fractions**
 - 5.M.NF.1 Adds and subtract fractions with unlike denominators.
 - 5.M.NF.3 Solves problems involving addition and subtraction of fractions.
 - 5.M.NF.6 Multiplies fractions.
 - 5.M.NF.12 Solves problems involving multiplication of fractions.
 - 5.M.NF.15 Divides fractions.

Standards for Mathematical Practice

1. Make sense of problems and persevere in solving them
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique 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.