

Fifth Grade Mathematics Curriculum
Edgartown School
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Curriculum Materials - Eureka Math by Great Minds

Our fifth grade mathematics program correlates with the Massachusetts Curriculum frameworks for Mathematics which merges the Common Core State Standards for Mathematics with additional Massachusetts standards.

<http://www.doe.mass.edu/candi/commoncore/>

This year students will build their understanding of the place value system by working with decimals up to the hundredths place. Students will also add, subtract, and multiply fractions, including fractions with denominators. They will learn how to divide fractions by whole numbers and divide whole numbers by fractions. They will expand their measurement skills and knowledge of geometry by learning the concept of volume and measuring the volume of a solid figure. Activities this year will include:

- Quickly and accurately multiplying multi-digit whole numbers
- Dividing numbers with up to four digits by two digit numbers
- Using exponents to express powers of 10
- Adding, subtracting, multiplying, and dividing decimals to the hundredths place
- Writing, reading, and comparing decimals to the thousandths place
- Writing and interpreting mathematical expressions using symbols such as parentheses
- Adding and subtracting fractions with unlike denominators(bottom numbers) by converting them to fractions with matching denominators
- Multiplying fractions by whole numbers and other fractions
- Dividing fractions by whole numbers and whole numbers by fractions
- Analyzing and determining the relationships between numerical patterns
- Measuring volume using multiplication and addition

The following are the modules or units this year:

Module 1: Place Value and Decimal Fractions

Module 2: Multi-Digit Whole Number and Decimal Fraction Operations

Module 3: Addition and Subtraction of Fractions

Module 4: Multiplication and Division of Fractions and Decimal Fractions

Module 5: Addition and Multiplication with Volume and Area

Module 6: Problem Solving with the Coordinate Plane

While covering the mathematical content we will also be focusing on The Standards for Mathematical Practice. These standards describe ways in which students should engage with the mathematical content and include the following:

- 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.**