

# Sacred Heart School

## Grade 5 Course Syllabi

Mathematics  
Grade 5

Diane Maleno  
[malenod@sacredheartgroton.org](mailto:malenod@sacredheartgroton.org)  
(860) 445-0611

**Course Description:** The purpose of the fifth grade mathematics program is to provide step-by-step instruction in mathematical concepts following the Common Core State Standards.

**Course Content:** Topics covered in the math curriculum are Operations and Algebraic Thinking, Number and Operations in Base Ten, Number and Operations with Fractions, Measurement and Data, and Geometry.

### General Course Objectives:

#### Operations and Algebraic Thinking:

The student will:

- Write and interpret numerical expressions.
- Analyze patterns and relationships.

#### Number and Operations in Base Ten:

The student will:

- Understand the place value system.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.

#### Number and Operations - Fractions:

The student will:

- Use equivalent fractions as a strategy to add and subtract fractions.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

#### Measurement and Data:

The student will:

- Convert like measurement units within a given measurement system.
- Represent and interpret data.

- Geometric measurement: understand concepts of volume and relate volume to multiplication and addition.

**Geometry:**

The student will:

- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Classify two-dimensional figures into categories based on their properties.

**Course Materials:** Pearson Envision textbook (2009), manipulatives.

**Instructional Strategies:** Whole class instruction, Small group instruction, Individual instruction, Peer tutoring, SMART Board presentation

**Assessment:** Teacher observation, Class participation, Completion of worksheets, Assessment skill sheets, tests/quizzes, Homework.