

Sacred Heart School
Grade 3 Mathematics
Course Syllabus

Course Description:

The third grade math program focuses on enabling students to become skillful problem solvers using the common core approach. Students will continue to build their concept of numbers, developing an understanding of fractions as numbers. They will learn the concept behind multiplication and division and apply problem-solving skills and strategies for multiplying and dividing numbers up through 100 to solve word problems. Students will also make connects between the concept of the area of a rectangle and multiplication and addition of whole numbers. It emphasizes strategies and applications to problem formulation. Students grow in the understanding of math's inter relatedness in the world as well.

General Course Objectives:

- Students will use place value to round numbers to the nearest 10 or 100.
- Students will fluently add and subtract within 1000.
- Students will solve two-step word problems using four operations.
- Students will use multiplication and division within 100 to solve word problems.
- Students will apply properties of operations as strategies to multiply and divide.
- Students will identify and explain arithmetic patterns.
- Students will determine the unknown whole number in a multiplication or division equation.
- Students will understand division as an unknown factor problem.
- Students will understand fractions as the quantity formed by one part of a whole.
- Students will represent a fraction on a number line diagram.
- Students will express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.
- Students will tell and write time to the nearest minute and measure time intervals in minutes.
- Students will understand perimeter and area.
- Students will measure and estimate liquid volumes and masses of objects using standard units.

Course Materials:

- Pearson, envision MATH (2009) and components
- Ten Marks (computer)

Instructional Strategies:

Instructional strategies used are whole group instruction, small group instruction, peer tutoring games, individual reinforcement, SMART lessons, and journal writing connections.

Assessment:

Assessments used are teacher observation, class participation, homework, drills, projects, classwork, quizzes, and tests.