

Sacred Heart School

Grade 2 Course Syllabi

Mathematics
Grade 2

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Course Description: The second grade math program encompasses the exploration and understanding of number relationships, patterns, using these and related concepts in real life problem solving situations.

Course Content: Topics covered in the math curriculum include addition and subtraction facts to 18, adding and subtracting double digit and triple digit numbers with and without regrouping, problem solving strategies, understanding place value of ones, tens, and hundreds, using graphs and charts of information, identifying fractional parts, recognizing coins, telling time to the hour, half-hour, and quarter hour, using a ruler to measure objects, and identifying common geometric shapes.

General Course Objectives:

1. Students will know addition and subtraction facts to 18.
2. Students will understand place value of ones, tens, and hundreds.
3. Students will compute problems that have double digits and triple digits in addition and subtraction with regrouping and without.
4. Students will learn various problem solving strategies.
5. Students will collect, organize, and describe data and use graphs and charts for information.
6. Students will recognize pennies, nickels, dimes, and quarters and will solve problems involving money.
7. Students will tell time to the hour, half-hour, and quarter hour.
8. Students will determine and use various tools and units to estimate and measure.
9. Students will use measurement to determine and explain relative size of an object.
10. Students will use standard units and identify examples of measurement.
11. Students will identify fractional parts (halves, thirds, fourths, sixths, eighths, and tenths).
12. Students will classify and identify plane figures and solids by common characteristics.
13. Students will recognize and explore Roman Numerals.

14. Students will identify and represent quantities as equivalent or nonequivalent.
15. Students develop fact families using inverse relationships.
16. Students describe the relationship between multiplication and division.
17. Students will identify and use equivalent representation of numbers to estimate and compute.
18. Students will identify, describe, create, and extend a number of patterns.
19. Students will analyze change in quantity and quality using patterns (odd/even numbers).
20. Students use number sentences to represent quantitative relationships – balancing simple number sentences by finding missing numbers.

Course Materials: Pearson Envision textbook (2009), manipulative kit

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