

GRACE COMMUNITY SCHOOL
Curriculum Development
COURSE DESCRIPTION

Course: Mathematics

Grade: Second

Philosophy Statement: God the Creator ordained His universe to be governed by specific and inviolate natural laws. Mathematics, the study and science of patterns, allows mankind to examine these laws and thereby better understand the world in which we live. We also use these laws – accurate reflections of God’s orderly, precise, generous, and wise character – to conduct our lives and affairs efficiently and equitably by counting, marking time, and exchanging goods and services, all with numbers. We will purpose to teach mathematics for the purpose of prompting children’s naturally inquisitive minds to discover the patterns and principles of arithmetic, geometry, algebra, and calculus, so that they will recognize and appreciate the divinely established patterns and principles in the world around them, and offer God His deserved glory as they apply mathematics to each area of their lives.

Course Objective: The students will demonstrate their understanding of the relationship between numbers, quantities and place value in whole numbers up to one thousand. They will estimate, calculate, and solve problems in addition and subtraction of two and three digit numbers. They will demonstrate a basic understanding of geometry.

Textbook: Houghton Mifflin Mathematics for Second Grade, California Edition

Materials:

- Student workbooks.
- Practice sheets.
- Re-teaching sheets.
- Enrichment sheets.
- Hands on manipulatives.
- Calendar.

Time Allotment: sixty minutes per day, five days per week.

Course Content:

- Unit 1: Addition and subtraction with and without borrowing and carrying.
- Unit 2: Identifying place value to the millions.
- Unit 3: Data and graphing.

- Unit 4: Problem solving (estimating, calculating and solving problems involving addition and subtraction of two and three digit numbers).
- Unit 5: Money value.
- Unit 6: Fractions.
- Unit 7: Geometry and probability.
- Unit 8: Multiplication and division.
- Unit 9: Measurement (inches, centimeters, ounces, pounds, quarts, and gallons).
- Unit 10: Clocks and calendar.

Assessment:

- Tests.
- Quick checks (quizzes).
- Daily worksheets.
- Homework.

Additional Activities:

- On-campus activity (measuring doors, desks, floors, etc.)
- Math games.
- Flashcards.