

## **COURSE DESCRIPTION SIXTH/SEVENTH GRADE MATH COURSE 2**

**Philosophy Statement:** Mathematics instruction has four main functions. First, it equips students to function effectively in an ever-changing world by becoming proficient in computational and communication skills. Second, it enables students to understand and apply mathematical concepts in everyday life. Third, it develops higher-order thinking skills necessary to make a contribution in related fields of study, research, and technology. Finally, it clearly illustrates the order and structure of the world God created.

**Objectives:** Students will solve problems using positive and negative numbers, percent and positive irrational numbers. They will write and solve equations, draw diagrams, measure, find patterns, and analyze data. In addition, students will continue to develop study skills, including note-taking, test-taking, and the correct use of the answers given in the back of the textbook.

**Textbook:** Mathematics Applications and Concepts: Course 2  
(Glencoe Mathematics, California Edition)

**Materials:** Student textbook, Math Composition Notebook

**Time Allotment:** 60 minutes per day, 5 days per week

**Course Content:**

- Chapter 1: Decimal patterns and Algebra
- Chapter 2: Statistics: Analyzing Data
- Chapter 3: Algebra: Integers
- Chapter 4: Algebra: linear equations and Functions
- Chapter 5: Fractions, Decimals, and Percents
- Chapter 6: Applying Fractions
- Chapter 7: Ratios and Proportions
- Chapter 8: Applying Percent
- Chapter 9: Probability
- Chapter 10: Geometry
- Chapter 11: Geometry: Measuring Two-Dimensional Figures
- Chapter 12: Geometry: Measuring Three-Dimensional Figures

**Areas to be Evaluated:**

- Class Work (20%)
- Homework (30%)
- Tests (30%)
- Quizzes (10%)
- Class Participation (10%)

**Additional Activities:** Students have the opportunity to be selected as a BCS representative for the Association of Christian Schools International (A.C.S.I.) Math Olympics in the area of computation or reasoning.