

<p align="center"><b>Course Title: GRADE FIVE MATHEMATICS-A</b></p>	<p align="center"><b>Course Description</b></p>
<p><b>Course No.</b> N/A <span style="float:right"><b>Grade level:</b> 5</span></p> <p><b>Text and Resources:</b>  A. <i>Grade Five, Harcourt Math</i> -California Edition; Harcourt Brace  B. <i>Working With Numbers, Level E</i>; Steck-Vaughn  C. <i>Strength in Numbers, Algebra, Level 5</i>; Steck-Vaughn</p>	<p><b>Course Duration:</b> *One Semester</p> <p><b>Credit Value:</b> One Course</p>
<p align="center"><b>Course Content: Key Content Standards and Course Objectives</b></p>	
<p>The following standards are the Grade Five Mathematics Content standards:</p> <ol style="list-style-type: none"> <li><b>Number Sense:</b> Students compute with very large and very small numbers, positive and negative numbers, decimals, and fractions and understand the relationship between decimals, fractions, and percents.</li> <li><b>Number Sense:</b> Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.</li> <li><b>Algebra and Functions:</b> Students use and interpret variables, mathematical symbols, and properties to write and simplify expressions and sentences.</li> <li><b>Algebra and Functions:</b> Students use variables in simple expressions, compute the value of the expressions for specific values of the variable, and plot and interpret the results.</li> <li><b>Measurement and Geometry:</b> Students understand and compute the volumes and areas of simple objects.</li> <li><b>Measurement and Geometry:</b> Students identify, describe, and classify the properties of, and the relationships between, plane and solid geometric figures.</li> <li><b>Statistics, Data Analysis, and Probability:</b> Students display, analyze, compare, and interpret different data sets including data sets of different sizes.</li> <li><b>Mathematical Reasoning:</b> Students make decisions about how to approach problems.</li> <li><b>Mathematical Reasoning:</b> Students use strategies, skills, and concepts in finding solutions.</li> <li><b>Mathematical Reasoning:</b> Students move beyond a particular problem by generalizing and applying it to other situations.</li> </ol>	<p>The Focus of this course will be the grade five mathematical standards. This course will provide a solid base of knowledge and skills toward the mastery of those standards. Students will increase their capability with the four basic arithmetic operations applied to positive and negative numbers, fractions, and decimals. They will know and use common measuring units to determine length and area and know and use formulas to determine the volume of simple geometric figures. Students will learn how to use a protractor and a compass to measure angles and solve problems. They will also learn to use grids, tables, graphs, and charts to record and analyze data.</p> <p>*Open entry/open exit</p>
<p align="center"><b>Methods of Study</b></p>	<p align="center"><b>Evaluation of Performance Standards</b></p>
<ol style="list-style-type: none"> <li>Students will complete all activities assigned.</li> <li>Students will participate in discussion with other class members and/or teacher.</li> </ol>	<ol style="list-style-type: none"> <li>Students will complete all assignments and assessments with a minimum of 70% accuracy.</li> <li>The supervising teacher will be satisfied with the quality of the student's work.</li> </ol>

# GRADE FIVE MATHEMATICS A

## Course Outline

### I. Textbook Assignment Options:

- A. *Grade Five Harcourt Math*; Chapters 1-15 (1 Course)
- Read and complete: even-numbered problems in “Practice and Problem Solving” and “Review/Test” sections and even-numbered problems in the *Practice workbook*.
  - Complete One Extension Activity
- B. *Working With Numbers, Level E* (1 Course)
- Complete all problems and activities in the textbook.
  - Complete One Extension Activity
- C. *Strength in Numbers, Algebra Level 5* (1 Course)
- Complete all problems and activities in the textbook.
  - Complete One Extension Activity

### II. Extension Activities

- A. Draw several shapes and determine the perimeter and area of each:
1. Using your ruler, draw a triangle with a base of 2 inches and a height of 4 inches. What is the perimeter and area of your triangle?
  2. Draw a rectangle with a length of 80 mm and a width of 40 mm. What is the perimeter and area of your rectangle?
  3. Draw a square with a side of 7 cm. What is the perimeter and area of your square?
  4. Draw 3 triangles: an equilateral, an isosceles, and a scalene. Write down the measurements of each side and then calculate the perimeter of each triangle.
- B. Harcourt Math (select 1)
1. Complete one of the California Connection activities from the textbook.
  2. Complete one of the Challenge activities.
  3. Complete one of the Math Detective activities.
- C. Teacher generated activity, approved by site administrator.

### III. Evaluation

- Unit and/or final test.
- All textbook work must meet the 70% accuracy level for a “C” grade.