

Singapore Math 6

Class Description: Singapore math says that Primary Mathematics U.S. Edition "is a series of rigorous elementary math textbooks and workbooks meant to be part of a system of learning in which adult supervision and independent practice go hand in hand. The main feature of this series is the use of the Concrete> Pictorial>Abstract approach. Students are provided with the necessary learning experiences beginning with the concrete and pictorial stages, followed by the abstract stage to enable them to learn mathematics meaningfully. This approach encourages active thinking process, communication of mathematical ideas and problem solving. Singapore Math develops the foundation students will need for more advanced mathematics." In grade 6, students will focus on algebraic expressions, fractions, ratios/percentages, area, perimeter, and geometrical concepts.

Learning Materials: Main Curriculum:
Primary Math Answer Key Booklet U.S. Ed 4A-6B
Primary Math HOME Instructor's Guide U.S. Ed 6A
Primary Math HOME Instructor's Guide U.S. Ed 6B
Primary Math Textbook 6A U.S. EDITION
Primary Math Textbook 6B U.S. EDITION
Primary Math Workbook 6A U.S. EDITION
Primary Math Workbook 6B U.S. EDITION

Learning Goals/Performance Objectives: 6.1.E Multiply and divide whole numbers and decimals by 1000, 100, 10, 1, 0.1, 0.01, AND 0.001.
6.2.A Write a mathematical expression or equation with variables to represent information in a table or given situation.
6.2.C Evaluate mathematical expressions when the value for each variable is given.
6.3.A Identify and write ratios as comparisons of part-to-part and part-to-whole relationships.
6.3.C Represent percents visually and numerically, and convert between the fractional, decimal, and percent representations of a number.
6.4.A Determine the circumference and area of circles.
6.4.B Determine the perimeter and area of a composite figure that can be divided into triangles, rectangles, and parts of circles.

Learning Activities: The student will work through 1-2 units per month. Each unit is comprised of 2-5 lessons. Students complete the workbook exercises. The textbook has the content and then practice and review problems that may be done after the corresponding workbook problems. There are 6 reviews (assessments) in book 6A and 8 reviews in book 6B.

Primary Mathematics U.S. Edition 6A

1. Algebra
 - Algebraic Expressions
2. Solid Figures
 - Drawing Solid Figures
 - Nets
3. Ratio
 - Ratio and Fraction
 - Ratio and Proportion
 - Changing Ratios

REVIEW A

REVIEW B

4. Percentage

- Part of a Whole as a Percentage
- One Quantity as a Percentage of Another
- Solving Percentage Problems by Unitary Method

REVIEW C

5. Speed

- Speed and Average Speed

REVIEW D

REVIEW E

REVIEW F (extra review exercises on customary measurements)

Primary Mathematics U.S. Edition 6B

1. Fractions

- Division
- Order of Operations
- Word Problems

2. Circles

- Radius and Diameter
- Circumference
- Area

3. Graphs

- Pie Charts

REVIEW A

REVIEW B

4. Volume

- Solving Problems

5. Triangles and 4-sided Figures

- Finding Unknown Angles

REVIEW C

REVIEW D

REVIEW E

6. More Challenging Word Problems

- Whole Numbers and Decimals
- Fractions
- Ratio
- Percentage
- Speed

REVIEW F

REVIEW G

REVIEW H (extra review exercises on customary measurements and division of fractions)

Progress Criteria/Methods of Evaluation: For successful completion of this course, the student will complete at least 70% of the lessons/goals, at a minimum of 70% accuracy.

September Book 6A Unit 1-2

October Unit 3

November Unit 4

December Unit 5

January Book 6B Unit 1

February Unit 2-3

March Unit 4

April Unit 5

May Unit 6

June Review