

## **Singapore Math 2**

**Class Description:** Singapore math says that Singapore 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 2, students focus on addition, subtraction, measurements, beginning multiplication and division, and more.

### **Learning Materials:** Main Curriculum:

Primary Math Answer Key Booklet U.S. Ed 1A-3B

Primary Math HOME Instructor's Guide U.S. Ed 2A

Primary Math HOME Instructor's Guide U.S. Ed 2B

Primary Math Textbook 2A U.S. EDITION

Primary Math Textbook 2B U.S. EDITION

Primary Math Workbook 2A U.S. EDITION

Primary Math Workbook 2B U.S. EDITION

**Learning Goals/Performance Objectives:** 2.1.C Identify the ones, tens, and hundreds place in a number and the digits occupying them.

2.1.F Compare and order numbers from 0 to 1,000.

2.2.A Quickly recall basic addition facts and related subtraction facts for sums through 20.

2.2.B Solve addition and subtraction word problems that involve joining, separating, and comparing and verify the solution.

2.2.F Create and state a rule for patterns that can be generated by addition and extend the pattern.

2.2.I Determine the value of a collection of coins totaling less than \$1.00.

2.4.B Collect, organize, represent, and interpret data in bar graphs and picture graphs.

**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 reviews (assessments) throughout the curriculum.

### Primary Mathematics U.S. Edition 2A Contents:

#### 1. Numbers to 1000

- Looking Back
- Comparing Numbers
- Hundreds, Tens and Ones

#### 2. Addition and Subtraction

- Meanings of Addition and Subtraction
- Addition Without Renaming
- Subtraction Without Renaming
- Addition With Renaming
- Subtraction With Renaming

### 3. Length

- Measuring Length in Meters
- Measuring Length in Centimeters
- Measuring Length in Yards and Feet
- Measuring Length in Inches

### 4. Weight

- Measuring Weight in Kilograms
- Measuring Weight in Grams
- Measuring Weight in Pounds
- Measuring Weight in Ounces

REVIEW A (test on concepts learned in chapters 1 through 4)

### 5. Multiplication and Division

- Multiplication
- Division

### 6. Multiplication Tables of 2 and 3

- Multiplication Table of 2
- Multiplication Table of 3
- Dividing by 2
- Dividing by 3

REVIEW B (test on concepts learned in chapters 1 through 6)

REVIEW C (test on concepts learned in chapters 1 through 6)

## Primary Mathematics U.S. Edition 2B

### 1. Addition and Subtraction

- Finding the Missing Number
- Methods for Mental Addition
- Methods for Mental Subtraction

### 2. Multiplication and Division

- Multiplying and Dividing by 4

- Multiplying and Dividing by 5
- Multiplying and Dividing by 10

REVIEW A

### 3. Money (U.S. currency)

- Dollars and Cents
- Adding Money
- Subtracting Money

### 4. Fractions

- Halves and Quarters
- Writing Fractions

REVIEW B

REVIEW C

### 5. Time

- Telling Time
- Time Intervals

### 6. Capacity

- Comparing Capacity
- Liters
- Gallons, Quarts, Pints and Cups

REVIEW E

### 7. Graphs

- Picture Graphs

REVIEW F

REVIEW G

### 8. Geometry

- Flat and Curved Faces
- Making Shapes

REVIEW H

### 9. Area

- Square Units

REVIEW I

REVIEW J (extra review exercises on customary measurements)

**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 2A Unit 1

October Unit 2

November Unit 3-4

December December: Unit 5

January Unit 6 Book 2B Unit 1

February Unit 2-3

March Unit 4-5

April Unit 6-7

May Unit 8-9

June Review