

Singapore Math 1

Class Description:

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 1st grade math, student learn about basic number sense, number bonds, measurements, money, addition, subtraction, 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 1A
Primary Math HOME Instructor's Guide U.S. Ed 1B
Primary Math Textbook 1A U.S. EDITION
Primary Math Textbook 1B U.S. EDITION
Primary Math Workbook 1A U.S. EDITION
Primary Math Workbook 1B U.S. EDITION

Learning Goals/Performance Objectives: 1.1.A Count by ones forward and backward from 1 to 120, starting at any number, and count by twos, fives, and tens to 100.

1.1.D Order objects or events using ordinal numbers.

1.1.F Fluently compose and decompose numbers to 10

1.1.H Group and count objects by tens, fives, and twos.

1.4.A Recognize that objects used to measure an attribute (length, weight, capacity) must be consistent in size.

1.4.E Describe the connection between the size of the measurement unit and the number of units needed to measure something.

1.5.A Represent data using tallies, tables, picture graphs, and bar-type graphs.

2.2.H Name each standard U.S. coin, write its value using the \$ sign and the ¢ sign, and name combinations of other coins with the same total value.

Learning Activities: The student will work through 2 units every month. Every unit comprises 1-3 lessons. The textbooks contain the learning tasks for students to do under adult supervision and interaction, along with practice and review problems. Practice exercises are designed to provide the students with further practice after they have done the relevant workbook exercises. Review exercises are provided for cumulative reviews of concepts and skills.

Singapore Math 1A Contents:

Chapter 1 Numbers 0 to 10

1 Counting

Chapter 2 Number Bonds

1 Making Number Stories

Chapter 3 Addition

1 Making Addition Stories

2 Addition with Number Bonds

3 Other Methods of Addition

Chapter 4 Subtraction

1 Making Subtraction Stories

2 Methods of Subtraction

Chapter 5 Position

1 Position and Direction
2 Ordinal Numbers - Naming Position
Chapter 6 Numbers to 20
1 Counting and Comparing
2 Addition and Subtraction
Chapter 7 Shapes
1 Common Shapes
Chapter 8 Length
1 Comparing Length
2 Measuring Length
Chapter 9 Weight
1 Comparing Weight
2 Measuring Weight
Chapter 10 Capacity
1 Comparing Capacity
2 Measuring Capacity

Singapore Math 1B Contents:

1. Comparing Numbers
•Comparing Numbers
•Comparison by Subtraction
2. Graphs
•Picture Graphs
3. Number to 40
•Counting
•Tens and Ones
•Addition and Subtraction
•Adding Three Numbers
4. Multiplication
•Adding Equal Groups
•Making Multiplication Stories
•Multiplication Within 40
5. Division
•Sharing and Grouping
6. Halves and Quarters
•Making Halves and Quarters
7. Time
•Telling Time
8. Numbers to 100
•Tens and Ones
•Order Numbers
•Addition Within 100
•Subtraction Within 100
9. Money
•Bills and Coins (U.S. currency)
•Shopping

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 1A Unit 1-2
October Unit 3-4
November Unit 5-6
December Unit 7-8
January Unit 9 Book 1B Unit 1
February Unit 2-3

March Unit 4-5
April Unit 6-7
May Unit 8-9
June Review