

Singapore Math 4

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 4, students focus on multiplication, division, fractions, decimals, geometry, and more.

Learning Materials: Main Curriculum:

Primary Math Answer Key Booklet U.S. Ed 4A-6B

Primary Math HOME Instructor's Guide U.S. Ed 4A

Primary Math HOME Instructor's Guide U.S. Ed 4B

Primary Math Textbook 4A U.S. EDITION

Primary Math Textbook 4B U.S. EDITION

Primary Math Workbook 4A U.S. EDITION

Primary Math Workbook 4B U.S. EDITION

Learning Goals/Performance Objectives: 4.1.C Represent multiplication of a two-digit number by a two-digit number with place value models.

4.1.D Multiply by 10, 100, and 1,000.

4.1.E Compare the values represented by digits in whole numbers using place value.

4.1.F Fluently and accurately multiply up to a three-digit number by one- and two-digit numbers using the standard multiplication algorithm.

4.1.I Solve single- and multi-step word problems involving multi-digit multiplication and verify the solutions.

4.2.C Convert a mixed number to a fraction and vice versa, and visually represent the number.

4.2.D Convert a decimal to a fraction and vice versa, and visually represent the number.

4.3.B Determine the approximate area of a figure using square units.

4.3.C Determine the perimeter and area of a rectangle using formulas, and explain why the formulas work.

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 4A

1. Whole Numbers

•Numbers to 100,000

•Rounding off Numbers

- Factors
- Multiples

2. Multiplication and Division of Whole Numbers

- Multiplication by a 1-digit Number
- Division by a 1-digit Number and by 10
- Multiplication by a 2-digit Number

REVIEW A

3. Fractions

- Adding Fractions
- Subtracting Fractions
- Mixed Numbers
- Improper Fractions
- Fraction of a Set

REVIEW B

4. Tables and Graphs

- Presenting Data

5. Angle

- Measuring Angles

6. Perpendicular and Parallel Lines

- Perpendicular Lines
- Parallel Lines

7. Area and Perimeter

- Rectangles and Squares
- Composite Figures

REVIEW C

Primary Mathematics U.S. Edition 4B

1. Decimals

- Tenths
- Hundredths
- Thousandths

- Rounding off

REVIEW A

2. The Four Operations of Decimals

- Addition and Subtraction
- Multiplication
- Division

REVIEW B

3. Measures

- Multiplication
- Division

4. Symmetry

- Symmetric Figures

REVIEW C

REVIEW D

5. Solid Figures

- Identifying Solid Figures

6. Volume

- Cubic Units
- Volume of a Cuboid

REVIEW E

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 4A Unit 1-2

October Unit 3

November Unit 4-5

December Unit 6-7

January Book 4B Unit 1

February Unit 2-3

March Unit 4

April Unit 5

May Unit 6
June Review