Singapore Math 4

Class Description: Singapore math says that Singapore Primary Mathematics STANDARDS 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 HOME Instructor's Guide STANDARDS EDITION 4A
Primary Math HOME Instructor's Guide STANDARDS EDITION 4B
Primary Math Textbook 4A STANDARDS EDITIONITION
Primary Math Textbook 4B STANDARDS EDITIONITION
Primary Math Workbook 4A STANDARDS EDITIONITION
Primary Math Workbook 4B STANDARDS EDITIONITION
Primary Math Answer Key Booklet STANDARDS EDITION 4A-6B

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: There are 11 total units in level 4 (4A and 4B). The student will work through an average of 1 unit per month. 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 STANDARDS EDITION 4A Contents
Unit 1 Whole Numbers
14 Exercises, Review 1

Unit 2 The Four Operations of Whole Numbers
12 Exercises, Review 2

Unit 3 Fractions
19 Exercises, Review 3

Unit 4 Geometry
15 Exercises, Review 4

Unit 5 Area and Perimeter
6 Exercises, Review 5

Primary Mathematics STANDARDS EDITION 4B Contents
Unit 6 Decimals
1 Tenths
2 Hundredths
3 Thousandths
Practice A
Practice B
4 Rounding
Review 6

Unit 7 The Four Operations of Decimals
1 Addition and Subtraction
Practice A
Practice B
2 Multiplication
Practice C
3 Division
Practice D
Practice E
Practice F
Review 7

Unit 8 Congruent and Symmetric Figures
1 Congruent Figures
2 Tiling Patterns
3 Line Symmetry
4 Rotational Symmetry
Review 8

Unit 9 Coordinate Graphs and Changes in Quantity
1 The Coordinate Grid
2 Changes in Quantities
3 Graphing Changes in Quantities
Review 9

Unit 10 Data Analysis and Probability
1 Organizing and Analyzing Data
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.

Sept: Book 4A, Unit 1 and unit 2
Oct: Book 4A, Unit 3
Nov: Book 4A, Unit 4 and 5
Dec: Book 4B, Unit 6
Jan: Book 4B, Unit 7
Feb: Book 4B, Unit 8
Mar: Book 4B, Unit 9
Apr: Book 4B, Unit 10
May/June: Book 4B, Unit 11 and Review