

New Fifth Grade, Singapore Math, Standards Ed.

Box 1: Class Description

This year-long course covers the fifth grade math content noted below. Weekly certificated contact will be completed through direct personal contact with an HQ/certificated teacher in an on-site HC class. At least one state standard will be covered in this course.

Box 2: Learning Materials

The curriculum, books, supplies, materials, web-sites, and other sources used for this course are Singapore Primary Math 5A and 5B.

(Make additions as you see fit.)

Box 3: Learning Goals/Performance Objectives

The schedule of month-by-month learning goals below, will likely not be exactly adhered to by the student. The schedule is approximate. Monthly coverage of these goals will vary according to the student's strengths and interests. The clear goal, however, is coverage of all of the goals below, by the end of the school year.

Primary Mathematics Standards Edition Textbook 5A

SEPTEMBER

1. Whole Numbers
 - Billions
 - Approximation and Estimation
PRACTICE A
 - Factors and Multiples
 - Prime Factorization
PRACTICE B
 - Multiplying by Tens, Hundreds or Thousands
 - Dividing by Tens, Hundreds or Thousands
PRACTICE C
 - REVIEW 1

OCTOBER

2. More Calculations with Whole Numbers
 - Calculations with Parentheses
PRACTICE A
 - Methods for Mental Calculation
PRACTICE B
 - Word Problems
PRACTICE C
 - Multiplication by a 2-Digit Whole Number

- Division by a 2-Digit Whole Number
PRACTICE D
REVIEW 2

NOVEMBER

3. Fractions

- Comparing Fractions
PRACTICE A
- Addition and Subtraction of Unlike Fractions
PRACTICE B
- Addition and Subtraction of Mixed Numbers
PRACTICE C
- Multiplying a Fraction and a Whole Number
PRACTICE D
- Fraction of a Set
PRACTICE E
REVIEW 3

DECEMBER

4. Multiply and Divide Fractions

- Product of Fractions
PRACTICE A
- Word Problems
PRACTICE B
- Dividing a Fraction by a Whole Number
PRACTICE C
- Dividing by a Fraction
PRACTICE D
- More Word Problems
PRACTICE E
REVIEW 4

JANUARY

5. Perimeter, Area and Surface Area

- Square Units
PRACTICE A
- Area of a Triangle
PRACTICE B
- Area of a Parallelogram
PRACTICE C
- Surface Area
REVIEW 5

6. Ratio

- Finding Ratio

- Equivalent Ratios
PRACTICE A
- Combining Three Quantities
PRACTICE B
REVIEW 6

Primary Mathematics Standards Edition Textbook 5B

FEBRUARY

7. Decimals

- Tenths, Hundredths and Thousandths
- Approximation
- Add and Subtract Decimals
- Multiply and Divide Decimals by a 1-Digit Whole Number
PRACTICE A
- Multiplication by Tens, Hundreds or Thousands
- Division by Tens, Hundreds or Thousands
- Multiplication by a 2-Digit Whole Number
- Division by a 2-Digit Whole Number
- Multiplication by a Decimal
- Division by a Decimal
PRACTICE B
REVIEW 7

March

8. Measures and Volume

- Conversion of Measures
PRACTICE A
- Volume of Rectangular Prisms
PRACTICE B
REVIEW 8

9. Percentage

- Percent
- Writing Fractions as Percentages
PRACTICE A
- Percentage of a Quantity
PRACTICE B
REVIEW 9

APRIL

10. Angles

- Measuring Angles
- Finding Unknown Angles
- Sum of Angles of a Triangle
- Isosceles and Equilateral Triangles
- Drawing Triangles
- Sum of Angles of a Quadrilateral

- Parallelograms, Rhombuses and Trapezoids
 - Drawing Parallelograms and Rhombuses
- REVIEW 10

MAY

11. Average and Rate

- Average
- Rate

PRACTICE A

PRACTICE B

REVIEW 11

12. Data Analysis

- Mean, Median and Mode
- Multiplying Measures
- Histograms
- Line Graphs
- Pie Charts

REVIEW 12

JUNE

13. Algebra

- Algebraic Expressions
- Integers
- Coordinate Graphs

PRACTICE A

PRACTICE B

REVIEW 13

Box 4: Learning Activities

Each day the student will complete a math lesson. They will have a new lesson/concept/learning explained, demonstrated/taught. They'll complete practice problems to ensure understanding of content. They will have independent practice/homework over those concepts. They will re-do and correct any which they missed. When review is needed, we'll not learn a new concept but take the time needed to re-teach or reinforce needed concepts.

(Make additions or deletions as you see fit.)

Box 5: Progress Criteria/ Methods of Evaluation

Student monthly progress evaluation is made on the basis of weekly certificated contact, work samples, communications with students, communications with parents, and performance in on-site classes. It is electronically communicated to parents via WINGS. It is our goal that the student will accomplish approximately 10% of the goals of this course each month, September

through June. The level of mastery expected is 70% or higher to progress. Methods of evaluation will include but are not limited to those below, under the direction of an HQ teacher:

- * observation and/or correction of daily and/or weekly work and progress
- * daily or weekly discussion of assignments, readings, writings
- * correction of work done incorrectly
- * portfolio kept of student work, at least weekly

(Make additions or deletions as you see fit, to asterisks.)

Box 6: Weekly Hours

Please estimate the number of hours your student will work on this course.