

## **Sixth Grade, Singapore Math, Standards Ed.**

### **Box 1: Class Description**

This year-long course covers the sixth 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 6A and 6B.

(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 6A**

##### **SETEMBER**

1. Algebra
  - Algebraic Expressions I  
PRACTICE A
  - Algebraic Equations  
PRACTICE B
  - Algebraic Expressions II  
PRACTICE C
  - Graphs of Functions  
PRACTICE D  
REVIEW 1

##### **OCTOBER**

2. Fractions and Decimals
  - Fractions and Decimals
  - Negative Fractions and Decimals
  - Comparing Numbers  
PRACTICE A
3. The Four Operations
  - Addition and Subtraction of Fractions  
PRACTICE A

- Multiplication and Division of Fractions  
PRACTICE B  
REVIEW 2

## NOVEMBER

- 4. Percentage
  - Percentage of a Quantity
  - Percentage of Change  
PRACTICE A
  - Simple Interest, Sales Tax and Discount I  
PRACTICE B
  - Simple Interest, Sales Tax and Discount II  
PRACTICE C

## DECEMBER

- 5. Ratio and Proportion
  - Comparing Quantities I  
PRACTICE A
  - Comparing Quantities II  
PRACTICE B
  - Comparing Three Quantities  
PRACTICE C
  - Word Problems  
PRACTICE D
  - Proportion  
PRACTICE E  
REVIEW 3

## JANUARY

- 6. Rate and Speed
  - Rate I  
PRACTICE A
  - Rate II  
PRACTICE B
  - Speed  
PRACTICE C
  - Average Speed  
PRACTICE D  
REVIEW 4

## **Primary Mathematics Standards Edition Textbook 6B**

## FEBRUARY

- 7. Circle
  - Circumference
  - Area  
PRACTICE A

- Composite Figures  
PRACTICE B

#### 8. Volume of Prisms and Cylinders

- Volume of Prisms
- Volume of Cylinders  
PRACTICE A

#### REVIEW 5

#### 9. Angles

- Adjacent Angles
- Vertically Opposite Angles and Angles at a Point
- Complementary Angles
- Supplementary Angles  
PRACTICE A
- Angles and Polygons I
- Angles and Polygons II  
PRACTICE B

#### 10. Construction of Triangles and Quadrilaterals

- Drawing Lines and Angles
- Constructing Triangles and Quadrilaterals  
PRACTICE A

#### REVIEW 6

#### 11. Data Handling

- Mean
- Population and Sample  
PRACTICE A
- Median
- Mode
- Range  
PRACTICE B

#### 12. Probability

- Experimental Probability  
PRACTICE A
- Theoretical Probability of Simple Events I
- Theoretical Probability of Simple Events II  
PRACTICE B
- Theoretical Probability of Combined Events I
- Theoretical Probability of Combined Events II  
PRACTICE C

#### REVIEW 7

#### 13. Negative Numbers

- Addition and Subtraction

- Multiplication and Division  
Practice A
- Order of Operations  
Practice B
- Solving Equations
- Graph of Functions  
Practice C

## REVIEW 8

### **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.**