

## PRIMARY MATHEMATICS – GRADE 5

### Basic Concepts for Placement Test (from grade 5 to 6)

School Year: 2010 - 2011

#### Place Value

Read, write, use models, words, and expanded form to show numbers up to hundred Billions.  
Compare , order , round , exploring place value relationship of numbers up to Billions  
Add and subtract 3digits to 5 digit numbers  
Solve problems on adding and subtracting with 3 & 5 digit numbers.

#### Multiplication

Multiply by 1 & 2 digit numbers  
Explore multiplication patterns & distributive , associative , commutative properties  
Use rounding to estimate products.

#### Division Number Sense

Divide 2 ,3 ,4 digit dividend by 1 & 2 digit divisor  
Explore mean ( average )  
Explore prime and composite numbers - prime factorize a number using the factor tree.  
Solve problems on division

#### Fractions

Explore equivalent fractions - use patterns to recognize equivalent fractions.  
Find the greatest common denominator (G.C.F) -Find the simplest form of a fraction.  
Use common denominators to compare and order like fractions, unlike fractions & unit fractions.  
Explore& write improper fractions as mixed numbers and mixed numbers as improper fractions.  
Find the least common denominator (L.C.M - L.C.D)  
Adding, subtracting, multiplying and dividing fractions and mixed numbers / Renaming fractions.  
Explore finding the reciprocal of a fraction in order to divide fractions or mixed numbers.  
Solve problems on fractions.

#### Decimals

Show , read , write , compare and order decimals using tenths , hundredths , and thousandths  
Round decimals to the nearest whole number , tenths & hundredths  
Add, subtract, multiply and divide decimals through the hundredths place .  
Explore decimals pattern in multiplication and division / Solve problems on decimals

#### Statistics

Read and Make a pictograph , bar graph ,line graph and line plot  
Use graphs to compare between a given data and solve problems.

#### Measurements

Explore estimating and measuring length.  
Change metric units of measure.  
Use decimals when working with centimeters, millimeters and meters.

#### Geometry

Identify, show, name & draw (intersecting, perpendicular & parallel lines).  
Explore and compare Solid shapes / Explore line symmetry  
Identify, name, draw and measure angles.  
Classify polygons, quadrilaterals, triangles.  
Area and perimeter of triangles, rectangles, polygons, parallelograms.