

## SYLLABUS 2019-2020

Class : 5  
Subject : Mathematics  
Book : Foundation Mathematics for Primary Classes - 5  
Publisher : Goyal Brothers Prakashan

### TERM 1

#### NUMBERS

- Indian and International system of numbers-9 digit numbers.
- Place value and face value.
- Expanded form.
- Comparison of the numbers.
- Ascending and descending order of numbers.
- Formation of greatest and smallest numbers from the given digits.
- Rounding off numbers nearest 10, 100, 1000.
- Roman numerals for large numbers.

#### MULTIPLICATION

- Standard algorithms for addition, subtraction and multiplication of large numbers.
- Multiplication by 2 digit number.
- Framing and solving problem from real life contexts involving number operations.
- Estimation of the product of two or more numbers.
- Word problem.

#### DIVISION

- Division of given number by another number (up to 2 digits).
- Framing and solving problem from real life contexts involving number operations.

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- Division by 2 digit numbers.
- Estimation of the quotient of 2 or more numbers.
- Word Problems

## MIXED OPERATIONS

- Providing opportunities for children to frame rules for estimation of the net result of 4 operations applied on numbers in daily life contexts.

## TERM 2

### FACTORS AND MULTIPLES

- Factors, common factors and highest common factors of 2 numbers.
- Multiples, common multiples and lowest common multiples of 2 numbers.
- Prime and composite numbers, twin primes and co-prime.
- Prime factors –factor tree method.
- Highest common factor (HCF)-listing method and common division
- Lowest common multiples (LCM)-listing method and common division.
- Relation between HCF and LCM.
- Test of divisibility by 2,3,4,5,9,10,11 (forming rules by observation).

### GEOMETRY

- Angle and its measures.
- Classification of angles into acute, right, obtuse, straight angles.
- Identification and representation of acute, right, obtuse, straight angles.

### FRACTIONS

- Comparison of 3 or more fractions.
- Addition and subtraction of unlike fractions.
- Addition and subtraction of mixed numbers.

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- Word problems on addition and subtraction of fractions.
- Multiplication of fractions-fraction by whole numbers and fraction by fraction.
- Division of fractions-whole number by a fraction, fraction by a fraction.

### TERM 3

#### DECIMALS

- Relation between fraction and decimal fraction.
- Pictorial representation of decimal fraction.
- Place value of decimal fraction-tenths, hundredths, thousandths.
- Expanded form : decimal and fraction expansion.
- Types of decimal fraction-equivalent, like and unlike.
- Comparing and ordering of decimal fraction, addition and subtraction of decimal fraction.
- Word problems.
- Multiplication of decimal fractions by 10, 100, 1000.
- Multiplication of decimal number by whole number and decimal number by decimal number.

#### PERCENTAGE

- Simple word problems on percentage.
- Relationship between fractions, decimal and percentage.
- Pictorial representation of percentage.
- Conversion of fractions to percentages and percentages to Fractions.
- Conversion of decimals to percentages and percentages to decimals.
- Simple word problems on percentage

#### AREA, PERIMETER AND VOLUME

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- Area and perimeter of simple geometrical shapes; ideas and their measurement.

## TERM 4

### MEASUREMENT

- Idea of larger and smaller units of length, weight, time, money and volume and conversion.
- Daily life problems involving length, weight, time, money and volume. Use of 4 number operations.
- Expressing Money in Words and Numbers

### DATA HANDLING

- Pictorial representation of raw data.
- Interpretation of bar graph.

### PATTERNS

- Patterns with a unit of repeat and their extension.
- Progressive patterns.
- Extension of progressive patterns.
- Patterns with more than one characteristic.

### SYMMETRY

- Symmetry in familiar 3D shape like cube, human body, buildings etc.
- Reflection and rotational symmetry in familiar 2D geometrical shapes like rectangle, square, triangle.

### NETS

- Nets of cubes, cuboids, cylinders and cones.

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