

## SYLLABUS 2019-2020

Class : 4  
Subject : Mathematics  
Book : Foundation Mathematics - 4  
Publisher : Goyal Brothers Prakashan

### TERM 1

#### 1. Numbers upto 999999

- Place Value and Face Value of Numbers beyond 9999
- Indian Number System
- Expanded, Word and Standard Form
- Comparison of Numbers
- Ascending and Descending order
- Successor and Predecessor
- Forming Greatest and Smallest Numbers

#### 2. Addition (Numbers upto 4 digits)

- Addition of Numbers
- Word Problems

#### 3. Subtraction ( Numbers upto 4 digits)

- Subtraction of Numbers
- Word Problems
- Analyse and Apply number operation

#### 4. Multiplication (2 and 3 digit numbers by a number upto 3-digit)

- Forming tables up to 20
- Multiplication
  - standard algorithms
  - lattice method
  - box method

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- Word problems

## TERM 2

### 1. Division( 2,3 and 4 digit number by a number upto 2 digit )

- Relationship between multiplication and division
- Word problems
- Application of all addition, subtraction, multiplication and division in real life situations

### 2 Fractional Numbers

- Concept of Fractional Numbers
- Types of fractions ( like, unlike, unit, Equivalent)
- Addition and Subtraction of Like Fractions

### 3 Measurement

- Relationship between different units of measurement
- Conversion of units from smaller to bigger and vice versa
- Measurement and comparisons of different related measuring units
- Problems based on Length, Mass and Capacity

## TERM 3

### 1. Time

- Reading time in hrs and mins and express the time in a.m and p.m
- Relate 24 hr clock with respect to 12 hr clock
- Calculate time intervals and duration of an activity

### 2. Multiples and Factors–

- Factors, common factors and highest common factors (HCF)
- Multiples, common multiples and lowest common multiples (LCM)
- Concept of Prime and Composite numbers,
- Prime Factorization
  - Division Method
  - Factor Tree Method
- H.C.F. and L.C.M. (listing method and common division)
- Test of divisibility by 2, 3, 4, 5, 9 and 10.

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### 3. Geometrical Shapes

- Terms plane, point, line, line segment, ray and parallel lines
- Intersecting and perpendicular lines
- Terms Related to a Circle (centre, radius and diameter)
- Relationship between Radius and Diameter of a Circle
- Draw 2D shape using a 3D object
- Perspective of a given 3D shape (Plain, elevated and side view)
- Creating different shapes by Tangram
- Create or Extend a Geometrical pattern based on symmetry

## TERM 4

### 1. Perimeter and Area

- Compute the Area and Perimeter of a Simple Shape

### 2. Data Handling

- Collect and Classify data to represent on a pictograph and bar graph
- Create a Bar Graph and a Pictograph
- Interpret and Analyse a pictograph and bar graph

### 3. Patterns

- Growing and reducing patterns
- Generalize the Rule to extend a growing/reducing pattern of shapes or numbers

## Numbers (upto 7 digit) and Place Value-

- Place Value and Face Value of Numbers beyond 999999

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