

SYLLABUS 2021-2022

Class : 4

Subject : MATHEMATICS

Book : FOUNDATION MATHEMATICS - 4

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Term 1

1. Numbers upto 999999

- Place Value and Face Value of Numbers beyond 9999
- Indian Number System
- Expanded, Word and Standard Form
- Comparisons 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)

- 1 Subtraction of Numbers
- 2 Word Problems
- 3 Analyse and Apply number operation

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Multiplication (2 and 3 digit numbers by a number upto3-digit)

- Forming tables up to 20
- Multiplication
- Standard algorithms
- Lattice method
- Box method

Term 2

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

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

Fractional Numbers

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

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

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Term 3

Time

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

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

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

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Term 4

Perimeter and Area

- Compute the Area and Perimeter of a Simple Shape

Data Handling

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

Patterns

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

Numbers (up to 7 digits) and Place value

- Place value and Face Value of Numbers beyond 9, 99,999

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