

SYLLABUS 2024-2025

Class : 4

Subject : Mathematics

Book : Foundation Mathematics - 4

Publisher : Goyal Brothers Prakashan

Term 1

1. Measurement(Integrated with Numbers up to 99,99,999, Addition and Subtraction)

- Concept of length, width, height, depth, mass, capacity and volume
- Relationship between different units of measurement
- Conversion of units from bigger to smaller units
- Comparison of quantities
- Addition and subtraction of quantities
- Problems based on Length, Mass and Capacity

2. 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

Term 2

1. Multiplication (2 and 3-digit numbers by a number up to 3-digit)

- Forming tables up to 20 (till 20 times)
- Horizontal multiplication
- Standard algorithms
- Word Problems

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2. Patterns

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

3. Division (2, 3 and 4-digit number by tables upto 20)

- Relationship between multiplication and division
- Short, long division methods
- Word problems

4. Measurement(Integrated with Multiplication and Division)

- Conversion of smaller units to bigger units
- Comparison of quantities

Term 3

1. Application of operations

- Addition, subtraction, multiplication and division

2. Multiples and Factors

- Test of divisibility by 2, 3, 4, 5, 6, 7, 9, 10 and 11
- Factors, common factors and highest common factors (H.C.F.)
- Multiples, common multiples and lowest common multiples (L.C.M.)
- 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)

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

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- 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
- Tessellations

4. Numbers (up to 7 digits) and Place value

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

Term 4

1. Perimeter and Area

- Compute the area and perimeter of a simple shape

2. Fractional Numbers

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

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
- Conversion of units of time

Calculate time intervals and duration of an activity

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