

## **CBSE Class 4 Syllabus for Maths 2023-24**

### **Geometry (16 hrs.)**

#### **SHAPES & SPATIAL UNDERSTANDING**

- Draws a circle free hand and with compass.
- Identifies centre, radius and diameter of a circle.
- Uses Tangrams to create different shapes.
- Tiles geometrical shapes: using one or two shapes.
- Chooses a tile among a given number of tiles that can tile a given region both intuitively and experimentally.
- Explores intuitively the area and perimeter of simple shapes.
- Makes 4-faced, 5-faced and 6- faced cubes from given nets especially designed for the same.
- Explores intuitively the reflections through inkblots, paper cutting and paper folding.
- Reads and draws 3-D objects, making use of the familiarity with the conventions used in this.
- Draws intuitively the plan, elevation and side view of simple objects.

### **Numbers (40 hrs.)**

#### **NUMBERS AND OPERATIONS**

- Writes multiplication facts.
- Writes tables upto  $10 \times 10$ .
- Multiplies two and three digit numbers using lattice algorithm and the standard (column) algorithm.
- Divides a given number by another number in various ways such as: – by drawing dots. – by grouping. – by using multiplication facts. – by repeated subtraction.
- Applies the four operations to life situations.
- Frames word problems.

- Estimates sums, differences and products of given numbers.

## **MENTAL ARITHMETIC**

- Adds and subtracts multiples of 10 and 100, mentally.
- Completes multiplication facts by adding partial products, mentally (e.g.  $7 \times 6 = 5 \times 6 + 2 \times 6$ ).

## **FRACTIONAL NUMBERS**

- Identifies half, one fourth and three- fourths of a whole.
- Identifies the symbols,  $\frac{1}{3}$  ,  $\frac{2}{4}$  .
- Explains the meaning of  $\frac{1}{2}$  ,  $\frac{1}{4}$  and  $\frac{3}{4}$  .
- Appreciates equivalence of  $\frac{2}{4}$  and  $\frac{1}{2}$  ; and of  $\frac{2}{2}$  ,  $\frac{3}{3}$  ,  $\frac{4}{4}$  and 1.

## **Money (5 hrs.)**

### **MONEY**

- Converts Rupees to Paise.
- Adds and subtracts amounts using column addition and subtraction with regrouping.
- Uses operations to find totals, change, multiple costs and unit cost.
- Estimates roughly the totals and total cost.

## **Measurement (21 hrs.)**

### **LENGTH**

- Relates metre with centimetre;
- Converts metre into centimetres and vice versa.
- Solves problems involving length and distances.
- Estimates length of an object and distance between two given locations.

### **WEIGHT**

- Weighs objects using a balance and standard units.
- Determines sums and differences of weights.

- Estimates the weight of an object and verifies using a balance.

### **VOLUME**

- Measures volumes of given liquid using containers marked with standard units.
- Determines sums and differences of volumes.
- Estimates the volume of a liquid contained in a vessel and verifies by measuring.

### **TIME**

- Computes the number of weeks in a year.
- Correlates the number of days in a year with the number of days in each month.
- Justifies the reason for the need of a leap year.
- Reads clock time to the nearest hours and minutes.
- Expresses time, using the terms, 'a.m.' and 'p.m.'
- Estimates the duration of familiar events.
- Finds approximate time elapsed by (to the nearest hour) forward counting.
- Computes the number of days between two dates

### **Data Handling (6 hrs.)**

- Collects data and represents in the form of bar graphs;
- Draws Inferences by discussing with the teacher.

### **Patterns (6 hrs.)**

- Identifies patterns in multiplication and division: multiples of 9
- Casts out nines from a given number to check if it is a multiple of nine.
- Multiplies and divides by 10s, 100s.
- Identifies geometrical patterns based on symmetry