

# MATHS SYLLABUS

## Class – 4

### 4<sup>th</sup> Class Maths Syllabus – An Overview

Class 4 Maths Syllabus is designed by subject experts associated with the board to make students learn and understand the subject effectively. Students are suggested to follow the CBSE Class 4 Syllabus for their exam preparation strictly. To download the CBSE Maths syllabus for Class 4 students.

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## Chapter – 1 ( Geometry )

### 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.

## Chapter – 2 ( Numbers )

- Writing multiplication facts.
- Writing tables up to 10.
- Multiplying 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, and so on.
- Applying the four operations to life situations.
- Framing word problems.
- Estimating sums, differences and products of given numbers.

## Chapter – 3 (Mental Arithmetic)

- Adds and subtracts multiples of 10 and 100, mentally.
- Completes multiplication facts by adding partial products, mentally  
(e.g.  $7 \times 6 = 5 \times 6 + 2 \times 6$ ).
- Estimating sums, differences, products and quotients and verifying using approximation.
- Completing multiplication facts by adding partial products, mentally.

## Chapter – 4 (Fractional Numbers)

- Identifying half, one-fourth and three-fourths of a whole.
- Identifying the symbols  $\frac{1}{3}$ ,  $\frac{1}{7}$ ,  $\frac{7}{4}$

- Explaining the meaning of various fractional values like  $\frac{5}{2}$ ,  $\frac{1}{8}$ ,  $\frac{3}{6}$
- Understanding the equivalence of  $\frac{4}{48}$  and  $\frac{1}{2}$ ;  $\frac{5}{5}$ ,  $\frac{3}{3}$ ,  $\frac{4}{4}$  and 1

## Chapter – 5 (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.

## Chapter – 6 (Measurement)

- Relating metre with centimetre.
- Converting metre into centimetres and vice versa.
- Solving problems involving length and distances.
- Estimating the length of an object and the distance between two given locations.

### **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.

## **Chapter – 7 (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.

## **Chapter – 8 (Patterns)**

- 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.

## **Chapter – 9 ( Decimals )**

- (i) Addition of numbers in decimals.
- (ii) Subtraction of numbers in decimals.
- (iii) Multiplication of numbers in decimals.