Karnataka Board Class 4 Maths Syllabus

Geometry **(20hrs.)**

Shapes & Spatial Understanding

- Draws a circle free hand and with compass.

- Identifies centre, radius and diameter of a circle.

- Creates different shapes using tangrams etc.

- Tiles geometrical shapes: using one or two shapes. Equilateral triangle/ Hexagon.

- Explores intuitively the perimeter and area of simple shapes.

- Makes 4-faced, 5-faced and 6-faced solids from given nets especially designed for the same.

- Reads and draws 3-D objects, making use of the familiarity with the conventions used in this.

- Rotates a coin to generate a sphere.

- Creates a hollow cylinder by stacking up bangles

Numbers **(50 hrs.)**

Numbers and operations

- Writes multiplication facts.

- Writes tables up to 10 x10.

- 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. 7x6 = 5x6+2x6).

• Appreciates equivalence of 2/4 and 1/2; and of
2/2, 3/3, 4/4 and 1.

• Understands 0.1, 0.2, 0.3, 0.4, 0.5...

Money   **(8 hrs.)**

• Adds and subtracts amounts using column addition and subtraction with regrouping.

• Uses operations to find totals, change, multiple costs and unit cost.

• Describes rate charts and bills.

Measurement   **(24hrs.)**

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 and verifies 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   (8hrs.)

• Collects data and represents in the form of bar graphs;

• Draws Inferences through discussions.

Patterns **(10 hrs.)**

• Identifies patterns in multiplication and division
eg: multiples of 9,

• Casts out nines from a given number to check if it is a multiple of nine.

• Identifies patterns.

• Multiplies and divides by 10s, 100s.

Identifies geometrical patterns based on symmetry.