



Mathematics → Classes I

Mathematics is about a certain way of thinking and reasoning.

Class II →

Geometry

SHAPES & SPATIAL UNDERSTANDING 3-D and 2-D Shapes

- ❖ Observes objects in the environment and gets a qualitative feel for their geometrical attributes.
- ❖ Identifies the basic 3-D shapes such as cuboid, cylinder, cone, sphere by their names.
- ❖ Traces the 2-D outlines of 3-D objects.
- ❖ Observes and identifies these 2-D shapes.
- ❖ Identifies 2-D shapes viz., rectangle, square, triangle, circle by their names.
- ❖ Describes intuitively the properties of these 2-D shapes.
- ❖ Identifies and makes straight lines by folding, straight edged objects, stretched strings and draws free hand and with a ruler.
- ❖ Draws horizontal, vertical and slant lines (free hand).
- ❖ Distinguishes between straight and curved lines.
- ❖ Identifies objects by observing their shadows.

Numbers

- ❖ Reads and writes numerals for numbers up to ninety-nine.
 - ❖ Expands a number with respect to place values.
 - ❖ Counts and regroups objects into tens and ones.
 - ❖ Uses the concept of place value in the comparison of numbers.
 - ❖ Counts in various ways: - Starting from any number. - Group counting etc.
 - ❖ Arranges numbers upto hundred in ascending and descending order.
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- ❖ Forms the greatest and the smallest two digit numbers with and without repetition of given digits.
- ❖ Indicates and identifies the position of an object in a line.

ADDITION AND SUBTRACTION

- ❖ Adds and subtracts two digit numbers by drawing representations of tens and ones without and with regrouping.
- ❖ Adds zero to a number and subtracts zero from a number.
- ❖ Observes the commutative property of addition through patterns.
- ❖ Solves addition, subtraction problems presented through pictures and verbal description.
- ❖ Describes orally the situations that correspond to the given addition and subtraction facts.
- ❖ Estimates the result of addition and subtraction and compares the result with another given number.

PREPARATION FOR MULTIPLICATION AND DIVISION

- ❖ Discussion of situations involving repeated addition and situations involving equal sharing.
- ❖ Activities of making equal groups.

MENTAL ARITHMETIC

- ❖ Adds and subtracts single digit numbers mentally.
- ❖ Adds and subtracts multiples of ten mentally.

MONEY

- ❖ Identifies currency - notes and coins.
- ❖ Puts together amounts of money not exceeding Rs 50/-.
- ❖ Adds and subtracts small amounts of money mentally.
- ❖ Transacts an amount using 3-4 notes.

MEASUREMENT

LENGTH



- ❖ Measures lengths & distances along short & long paths using uniform (non-standard) units, extends to longer lengths

WEIGHT

- ❖ Compares two or more objects by their weight.
- ❖ Appreciates the need for a simple balance.
- ❖ Compares weights of given objects using simple balance.

CAPACITY (VOLUME)

- ❖ Compares and orders containers in terms of internal volume(capacity).
- ❖ Orders given containers as per their capacities on the basis of perception & verifies by pouring out etc.

TIME

- ❖ Gets familiar with the days of the week and months of the year.
- ❖ Gets a feel for sequence of seasons (varying locally).
- ❖ Sequences the events occurring over longer periods in terms of dates/days.

DATA HANDLING

- ❖ Collects data through measurement.
- ❖ Represents the data followed by discussion (e.g. heights of children).
- ❖ Collects and presents the data on birthdays.
- ❖ Draws inferences from the data at the appropriate level.

PATTERNS

- ❖ Observes and extends patterns in sequence of shapes and numbers.
 - ❖ Searches for patterns in different ways of splitting a number.
 - ❖ Creates block patterns by stamping thumbprints, leaf prints, vegetable prints, etc.
 - ❖ Creates patterns of regular shapes by stamping.
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