

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.

Numbers

NUMBERS AND OPERATIONS

- Writes multiplication facts.
- Writes tables upto 10×10 .
- 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, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{3}{4}$.

- Explains the meaning of 1 2 , 1 4 and 3 4 .
- Appreciates equivalence of 2 4 and 1 2 ; and of 2 2 , 3 3 , 4 4 and 1.

Money

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

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

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