

# Class VII( MATHS )

## 2023-24

MONTH	CHAPTER	CONTENT	ACTIVITIES
April	<b>Rational numbers</b>  <b>Operations on Rational numbers</b>	Standard form, Number line, Compare rational numbers  Addition, subtraction, multiplication and division of rational numbers	Role play showing number line  Activity showing relation of rational numbers with natural numbers, whole numbers & integers.
MAY	Rational numbers as decimals    Symmetry	Terminating and non-terminating decimals, simplification of decimal numbers    Symmetry in Eng. Alphabets, different shapes, mirror image	To enable the students to convert rational numbers into decimals  Concept of symmetry by paper-folding and ink-dot design  Mathematical models for vacation
JULY	Exponents & Powers  Applications of percentage	Laws of exponents when bases are same and different.  Profit, loss, Percentage Problems	laws of exponents with foldable wheel activity  To solve percentage problems by daily life activity
AUGUST	Applications of percentage   Construction of triangles	Simple Interest   Construction of acute, right, obtuse triangles	Quiz   To construct triangles using compass and protector

OCTOBER	Algebraic Expression  Linear equation in one variable	Product of Monomial, Binomial & Trinomial with each other, HCF and Factorization  Solution of simple and word problems	Addition of algebraic expressions using algebra tiles  Solution of linear equation by balancing equation through activity
November	Triangle and its property  Congruent triangles	Angle sum property, Exterior angle property, Pythagoras theorem, centroid, orthocenter, circum centre, incentre of triangle  SSS, SAS, ASA, RHS conditions related problems	Paper folding activities, verification of properties  Collection of congruent objects in classroom Exhibition  Finding perimeter and area taking daily life examples
December	Perimeter and Area	Area of outer path, inner path, cross-path, triangle, parallelogram, rhombus and circle	Faces, edges and vertices of 3D shapes taken in class
January	Visualizing solids  Data Handling	Cube, cuboid, pyramid, oblique sketch and isometric sketch  Mean, median, mode of given data, bar graph.	Activity showing mean, median & mode  Representation of a data on a bar graph related to daily life activities