

BAGARIA BAL VIDYA NIKETAN

LAXMANGARH-SIKAR

SYLLABUS & LESSON PLANNER-2025-26

Class:- VII

Subject:- MATHEMATICS

Teacher Name:- VIRENDRA KUMAR SONI

SYLLABUS

Ch.No	Name of Chapter	working day	Period	Topic	Month	Week
CH 1	INTEGERS	23	30	CH 1 Properties of Integers, Properties of addition and subtraction of integers, Multiplication of integers, Properties of multiplication of integers, Division of integers, Properties of division of integers	April	1
						2
CH 2	FRACTIONS AND DECIMALS			CH 2 Revision of fractions, Proper fractions and Improper fractions, addition and subtraction of fractions., Multiplication of fractions., Division of fractions, Multiplication of Decimal numbers, Division of decimal numbers		3
						4
CH 3	DATA HANDLING	13	17	CH 3 Collecting data, Organization of data, Representative values, mean, mode, median Use of bar graphs with a different purpose, chance and probability.	MAY	1,2
CH 4	SIMPLE EQUATIONS	11	14	CH 4 Setting up of an equation., From solution to equation, Application of simple equation to practical situation.	June	1
						2
				CH 5		1

CH 5	LINES AND ANGLES	27	36	Related angles: Complementary angles, Supplementary angles, vertically opposite angles Pair of lines: Intersecting lines, transversal, checking for parallel lines	July	2
CH 6	TRIANGLES AND ITS PROPERTIES			CH 6 Medians of a triangle, Altitudes of a triangle, Exterior angle of a triangle and its properties, Angle sum property of a triangle, Two special triangles: equilateral triangle and isosceles triangle., Sum of the lengths of two sides of a triangle., Right-angled triangle and Pythagoras theorem and property		3
						4
CH 7	COMPARING QUANTITIES	24	32	CH 7 Equivalent ratios, Percentage - another way of comparing quantities, Meaning of Percentage, Converting fractional numbers to percentages, Converting decimals to percentage, Converting percentages to fractions or decimals, Use of percentages, interpreting percentages, converting percentages to 'How many', Ratios to Percents, Increase or decrease as percent., Prices related to an item or buying and selling, Profit or loss as a percentage, Charge given on borrowed money or simple interest, Interest for multiple years	August	1
						2
CH 8	RATIONAL NUMBERS			CH 8 Need for rational numbers, What are rational numbers?, Positive and negative rational numbers, Rational numbers on a number line, Rational numbers in standard form, Comparison of rational numbers, Rational numbers between two rational numbers, Operations of rational numbers: Addition, Subtraction, Multiplication, Division		3
						4
CH 9	PERIMETER AND AREA	22	29	CH 9 Squares and rectangles, Triangles as part of rectangles, Generalizing for other congruent parts of rectangles, Area of a parallelogram, Area of a triangle, Circles: circumference of a circle, Area of circle, Conversion of units, Applications.	September	1
						2
						3
						4
Syllabus Break due to Exam Period and Holidays in the month of October						
CH 10	ALGEBRAIC EXPRESSIONS	24	32	CH 10 Terms of an Expression: Factors of a term, Coefficients, Like and Unlike Terms, Monomials, binomials, trinomials and polynomials, Addition and Subtraction of Algebraic Expressions, Finding the Value of an Expression, Using Algebraic expressions - Formulas and Rules		1

CH 11	EXPONENTS AND POWERS			CH 11 Laws of exponents, Multiplying powers with the same base, dividing powers with the same base, taking power of a power, multiplying powers with the same exponents, dividing powers with the same exponents, numbers with exponent zero, Miscellaneous examples using the laws of exponents, Decimal number system, Expressing large numbers in the standard form.	November	2
						3
						4
CH 12	SYMMETRY	21	28	CH 12 Lines of symmetry for regular polygons, Rotational symmetry, Line symmetry and rotational symmetry.	December	1
						2
CH 13	VISULISING SOLID SHAPES			CH 13 Plane figures and solid shapes, Faces, edges and vertices, Nets for building 3-d shapes, Drawing solids on a flat surface, Oblique sketches, isometric sketches, Visualising solid objects, Viewing different sections of a solid		3,4

