D.A.V. Public School
Affiliated to CBSE(10+2)
Sector – 3 Dhurwa Ranchi-4

Class VIII MATHEMATICS Syllabus(2019-2020)

Months	Chapter	Topic	Exam / Tests Portion
APRIL	CH-1 (Rational Numbers)	Introduction, properties of rational numbers ,additive identity, additive inverse, multiplicative inverse, representation of rational numbers on the number line, rational numbers between two rational numbers.	
	CH-2 (Linear equation in one variable)	Introduction, solving equations having the variable on both sides, some applications, reducing equations to simpler form, equations reducible to the linear form.	
MAY	Ch-3 (Understanding Quadrilaterals)	Introduction, polygons, classification of polygons, convex and concave polygons, regular and irregular polygons, angle sum property, exterior angles, kinds of quadrilaterals, some special parallelograms.	
JUNE	CH-4 (Practical Geometry)	Constructing a quadrilateral, 4 sides and a diagonal are given, two diagonals and three sides are given, 2 sides and 3 angles are given, 3 sides and 2 included angles are given.	
	Ch-5(Data Handling)	Grouping data, pie chart, chance and probability, equally likely outcomes, outcomes an event.	
JULY	CH-6(Squares and Square Roots)	Introduction, properties of square numbers, finding the square of a number, Pythagorean triplets, square roots, finding square roots, finding square roots through prime factorization, square roots of decimals estimating square root	
	CH-7 (Cubes and Cube Roots)	Cubes, smallest multiple that is a perfect cube, cube roots, Cube root through prime factorization method, Cube root of a number	
	CH-8 (Comparing	Ratios and percentages, finding discounts, finding cost	

		price/selling price, profit%/loss%,	
AUGUST	CH-8 (Comparing Quantities)	Compound interest, rate compounded annually or half yearly, application of compound interest formula.	**PT-1 EXAM Portion Ch-1,2,3,4 ,5**
SEPTEMBER		**REVISION for HALF YEARLY EXAM**	**HALF YEARLY EXAM Portion Ch-1 to 8**
OCTOBER	Ch-9 (Algebraic expressions and identities)	What are expressions?, terms, factors and coefficients, monomials, binomials, and polynomials, addition and subtraction of algebraic expressions, multiplying a monomial by a monomial/binomial/trinomial, standard identities, applying identities.	
	Ch-10(Visualizing solid shapes)	Introduction, Faces, edges and vertices,	
	Ch-11 (Mensuration)	Area of trapezium, area of a quadrilateral, area of a polygon , surface area of cube, cuboid and cylinder, volume of cube, cuboid and cylinder.	
NOVEMBER	Ch-12(Exponents and powers)	Powers with negative exponents, Laws of exponents, use the exponents to express small numbers in standard form, comparing very large and very small numbers.	**PT-2 EXAM Portion Ch-9 to 12**
DECEMBER	Ch-13 (Direct and inverse proportions)	Introduction, inverse proportion,	
	Ch-14 (Factorisation)	Factors of natural numbers, factors of algebraic expressions, what is factorization?, factorization by regrouping terms, factorization using identities, factors of the form (x+a) (x+b), division of algebraic expressions.	
JANUARY	Ch-15 (Introduction to graphs)	A bar graph, A pie graph, a line graph, linear graphs, some applications,	**PT-3 Exam Portion Ch-ch-13 to 16**
	Ch-16 (playing with numbers)	Numbers in general form, test of divisibility	
FEBRUARY		**REVISION & ANNUAL EXAM (Syllabus-Complete book).**	