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

Class IX MATHEMATICS Syllabus(2019-2020)

Months	Chapter	Topic	Exam / Tests Portion
APRIL	CH-1 (NUMBER SYSTEM) CH-12 (Heron's formula)	Introduction, Irrational Numbers, Real Numbers and their Decimal expansions, Conversion of decimal numbers into rational numbers, Representing irrational numbers on the number line, visualization of real numbers by the process of successive magnification, exponents of real numbers, Rationalization of denominator. Area of a triangle by Heron's formula, Application of Heron's formula in finding areas of quadrilaterals.	
MAY	Ch-2 (Polynomials)	Definition of polynomials, kinds of Polynomials, Zeroes of polynomials, Remainder Theorem, factor Theorem, Factorization of polynomials, Algebraic Identities.	
JUNE	CH-3 (Coordinate Geometry) Ch-4(Linear equations in two variables)	Introduction, Cartesian coordinate axes, convention of signs, plotting of points. Linear equations in two variables, graphs of a linear equation in two variables,	
JULY	CH-5(Introduction to Euclid's geometry) CH-6 (Lines and angles)	Introduction , Euclid's axioms, Euclid's postulates, undefined terms Introduction ,basic terms and definitions, intersecting lines and non-intersecting lines , pairs of angles, parallel lines and a transversal ,lines parallel to the same line, angle sum property of a triangle	
AUGUST	CH-7 (Triangles)	Congruence of triangles, condition for congruence of triangles, properties of triangles ,Inequalities in a triangle	**PT-1 EXAM Portion** **Ch-1,2,3,4 & 12**
SEPTEMBER		**REVISION for HALF YEARLY EXAM**	**HALF YEARLY EXAM Portion** **Ch-1 to 7 & ch-12**
OCTOBER	Ch-8 (Quadrilaterals)	Angle sum property of quadrilaterals, Types of quadrilaterals,	

		properties of a parallelogram, condition for a quadrilateral to be a parallelogram, The midpoint Theorem.	
	Ch-9 (Areas of a parallelogram & Triangles)	Parallelogram on the same base and between the same parallels, triangles on the same base and between the same parallels.	
NOVEMBER	Ch-13 (Surface areas and volumes)	Surface area and volume of a cuboids, cube, right circular cylinder, cone, sphere and hemisphere.	**PT-2 EXAM Portion Ch-7,8,9 & 13**
DECEMBER	Ch-10 (circles)	Circles and related terms, angle subtended by a chord at a point, perpendicular from the center to a chord, circle through three points, equal chords and their distance from the centre , angle subtended by an arc of a circle, cyclic quadrilaterals.	
	Ch-11 (constructions)	Some basic constructions, some construction of triangles.	
JANUARY	Ch-14& 15 (Statistics &probability)	Tabular representation, graphical representation, mean, median, mode, Definition of probability, Experimental approach to probability, definition of various terms, Empirical probability.	**PT-3 Exam Portion Ch-9, 10, 11 & 13**
FEBRUARY		**REVISION & ANNUAL EXAM (Syllabus-Complete book).**	