Vidya Pratishthan's New Bal Vikas Mandir Pimpli, Baramati

ANNUAL CURRICULUM AND PEDAGOGICAL PLAN 2025-26						
Std IX MATHEMATICS						
	Topic No. of periods	**Learning Outcomes**	**Teaching / Learning Strategies / Activities**	**Assessment Tools**	**Resources**	**Inter Disciplinary**
APRIL	**NUMBER SYSTEMS (9)** a) Irrationl numbers b) Real numbers and their decimal expansion **INTRODUCTION TO EUCLIDS GEOMETRY (7)** a)Euclids defination b)Axioms c) Postulates	**The students will be able to,** a) Identify Rational and Irrational numbers b) Represent Irrational numbers on the Number line and construct a square root spiral. The students will be able to … c) Apply the Euclid's axioms and postulates to prove the theorems.	Activity based learning i) Representing numbers on a number line, finding rational and irrational numbers between given numbers, and exploring decimal expansions of fractions. ii)Construct a square root spiral	Class Test MCQ's	Textbook	a) Critical thinking b) Arithmetic reasoning c) Quantitative aptitude
JUNE	**NUMBER SYSTEMS (9)** c)Operation on real numbers d)Laws of exponents for real numbers **LINES AND ANGLES (14)** a)Basic terms and definations b)Pairs of angles c)Intersecting and non-intersecting lines	**The students will be able to,** a) Categorise rational and irrational numbers in a real number system. b) Solve operations on Rational and Irrational c)Identify Linear pair of angles, the angles formed by parallel lines and its transversal and prove that vertically opposite angles are equal.	Activity based learning a) Students can explore angles in classroom objects, use protractors to measure angles. b)To verify vertically opposite angles are equal	Multiple assessment(10 marks)	a)NCERT Textbook b)Geogebra software	a) Critical thinking b)Art

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JULY	**POLYNOMIALS (9)** a) Polynomials inne varible b)Zeroes of a polynomial **TRIANGLES (11)** a)Congruence of triangles b)Criteria for congruence of triangles SAS, ASA ,AAS ,SSS	**Student will be able to,** a) Identify degree of a polynomial and classify them. d)Understand different types of triangles e)Understand different congruence conditions	Lecture method Experimention learning a)To verify the mid point theorem for triangle ,using paper cutting b)To factorise a polynomial of the type x2+bx+c	Worksheet	a) Videos b)Geogebra software c) Maths lab	a)problem solving b)quantitative aptitude
Premid Examination, July2025						
AUGUST	**POLYNOMIALS (9)** c) Factorization of polynomials d)Algebric identities **TRIANGLES (11)** c)Some properties of triangles d)RHSCongruence rule	**The students will be able to,** a) Find remainder through remainder theorem and hence form factor theorem and apply it to factorise the polynomial b)Use various algebraic identities for c)Proof of important theorems	a)Lecture method b)Maths lab activities	HOTS(Case Study)	a) Charts of algebraic identities b) Maths lab	a) Problem solving b) Critical thinking

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SEPTEMBER	**LINEAR EQUATIONS IN TWO VARIABLES (10)** a)Linear equations b)Solutions of linear equations **QUADRILATERALS (9)** a)Properties of parallelograms b)Properties about diagonal , opposite sides , and angles	**The students will be able to,** a)Use variables and linear equations in day to day life situations b)Operate algebraic operations on variables c)Recall different types of quadrilaterals and their properties d) Identify different quadrilaterals . e) Explores congruency and difference between different quadrilaterals.	Lecture Method Experiential Learning a)Students will find the solutions of linear equations in two variables. b)Proof of Midpoint Theorem	Assignment on proof based questions	a) Charts of various types of quadrilateral b) Maths lab c)NCERT Textbook	a)Art b) Problem solving
OCTOBER	**CO-ORDINATE GEOMETRY (7)** a)Introduction to co-ordinate geometry b)Cartesian system **QUADRILATERALS(4)** c) The Mid point theorem **CIRCLES (9)** a)Angle subtended by a chord at a point b)Perpendicular from centre to chord	The students will be able to … a) Plot a point in the Cartesian plane if the coordinates are given. b) Describe position of a point with reference to x- axis and y-axis. c) Identify the quadrants in the cartesian co-ordinate system d)define the terms related to circles and use properties of circle to solve problems e)apply various properties related to chord , arc ,angle subtended by them in daily life applications (e.g.pizza ,camera lenses , steering wheels etc.)	a)Plotting points on a graph, identifying quadrants, and finding distances between points b)Paper folding and cutting to explore relationships like equal angles at the center and equal arcs.	a)Short answer assignment	a) Geogebra software b)Teach next software C) NCERT Textbook	a) Art b)Problem solving c)Logical reasoning
Midterm Examination, October 2025						

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NOVEMBER	**SURFACE AREA AND VOLUMES (17)** a)Surface area and volume of right circular cone b) Surface area and volume of sphere **CIRCLES(8)** c)Equal chords and their distances from centre d)Angle subtended by an arc of a Cyclic quadrilateral	**The students will be able to** a)Compute the surface area of a Cone, Cylinder and another shapes and understand its applicability in real life situations. b)Compute the volume of the given shapes	Experiential Learning i)To find relation between the volume of cylinder and cone with equal radii and equal height. Ii)To verify that the sum of opposite angle of a cyclic quadrilateral is 180	Multiple Assignment	Textbook, Practice problems, Formula sheets	a)Problem solving b)Critical thinking
DECEMBER	**STATISTICS (15)** a)Graphical representation of data b) Bar graphs ,histograms and frequency polygons	**The students will be able to** a)Represent the data in the form of Frequency distribution table and construct a grouped frequency distribution table. b)Represent the given data in the form of a Histogram and Frequency polygon	a) Construct a bar graph, histogram,frequency polygons from the data	To prepare a frequency distribution table from the given data	a) Graph book b)Graphboard c)NCERT Textbook	a)Social awareness b)Data handling c)Logical reasoning
Postmid Examination, December 2025						
JANUARY	**HERON`S FORMULAE (5)** a)Area of triangle by Heron's formula	**The students will be able to** a)Apply Heron's formula to find the area of any triangle if its height is unknown	a) Chalk and board method	a)Finding the area of a triangle using Heron's formula.	a) NCERT Textbook	a) Critical thinking b) Problem solving
Annual Examination, February 2026						