

VIDYA PRATISHTHAN'S NEW BAL VIKAS MANDIR,PIMPLI- BARAMATI  
ANNUAL CURRICULUM PLAN 2023-24  
MATHEMATICS

Std IX

Month	Topic	Learning Outcomes	Subject Enrichment Activity
April 18 Days	1)Number Systems	<b>The students will be able to ...</b> 1) Identify Rational and Irrational numbers 2) Represent Irrational numbers on the Number line and construct a square root spiral. 3) Categories rational and irrational numbers in a real number system. 4) Solve operations on Rational and Irrational Numbers	1)To Construct a Square Root spiral
June 20 Days	1)Introduction to Euclid's geometry 2) Lines and Angles	<b>The students will be able to ...</b> 1) Apply the Euclid's axioms and postulates to prove the theorems. <b>The students will be able to ...</b> 2)Identify Linear pair of angles, the angles formed by parallel lines and its transversal and prove that vertically opposite angles are equal.	Multiple assessment (10marks)  2)To verify vertically opposite angles are equal.
July 21 Days	1)Polynomials 2)Coordinate geometry	<b>The students will be able to ...</b> 1) Identify degree of a polynomial and classify them. 2)Find remainder through remainder theorem and hence form factor theorem and apply it to factorise the polynomial. 3) Use various algebraic identities for expansion. <b>The students will be able to ...</b> 1) Plot a point in the Cartesian plane if the coordinates are given. 2) Describe position of a point with reference to x- axis and y-axis.	<b>3)To</b> factorise a polynomial of the type $x^2+bx+c$  4)Graph: To find a hidden picture by plotting and joining the various points with given coordinates

		3) Identify the quadrants in the Cartesian plane  Notebook Assessment  Pre Mid (First week of July)	
August 23 Days	1) Linear Equations in Two Variables	<b>The students will be able to ...</b> 1) Understand the equation in standard form. 2) Frame linear equations for a given situation. 3) Understand its applicability in daily life.	Multiple assessment (10m)
September 24 Days	1) Triangles	<b>The students will be able to ...</b> i) Identify different types of triangles and different congruence conditions ii) understand proofs of important theorems (ASA)  Notebook Assessment Mid Term (September last week)	5) To verify the Mid-point theorem

October 24 Days	1) Triangles continued 2) Quadrilaterals	<b>The students will be able to ...</b> 1) Recall different types of quadrilaterals and their properties 2. Identify different quadrilaterals and design them under given conditions. 3. Explore congruency and difference between different quadrilaterals. 4. Apply different theorems in the problems.	Multiple assessment (10m)
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Nov 15 Days	1)Circles	<p><b>The students will be able to ...</b></p> <p>1) Define the terms related to circle and apply the properties for proving the theorems.  2)Apply various properties related to chord, arc and angle subtended by them at the Centre and other part of circle in daily life. ( eg. Camera lenses, Pizzas, Rings, Steering wheels, buttons, Satellites orbit around the Earth etc.)</p>	<p>6) To verify that the central angle subtended by an arc of the circle is double the angle subtended in it.  7) To verify that an angle subtended by equal Chords are Equal</p> <p>Multiple assessment (10marks)</p>
December 18 Days	1) Heron's Formula 2) Surface Area and Volume	<p><b>The students will be able to ...</b></p> <p>1)To calculate the area of a quadrilateral by dividing it into two triangles  2)Apply Heron's formula to find the area of any triangle if its height is unknown</p> <p><b>The students will be able to ...</b></p> <p>1)Compute the surface area of a Cone, Cylinder and other shapes and understand its applicability in real life situations.  2)Compute the volume of the shapes given</p> <p style="text-align: center;"><b>Notebook Assessment Post Mid Term(December Last week)</b></p>	
January 25 Days	Statistics	<p><b>The students will be able to ...</b></p> <p>1)Represent the data in the form of Frequency distribution table</p>	<p>8)To prepare a Frequency Distribution Table from the given</p>

<p>February 23days</p>		<p>and construct a grouped frequency distribution table. 2) Represent the given data in the form of a Histogram and Frequency polygon</p> <p><b>Revision Notebook Assessment Annual Examination</b></p>	<p>data(Throw a die 20 times)</p>
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