



**SANTNANDLALSMRITIVIDYAMANDIR,GHATSILA**  
**YEARLY SYLLABUS OF MATHEMATICS**  
**SESSION-2026-2027**  
**STD – X**



MONTH	WORKING DAYS	TOPIC TO BE TAUGHT	ACTIVITY	LEARNING OUTCOME	VALUES & SKILLS IMPARTED	ASSESSMENT
APRIL	23	<b>CH-1 Number system</b> *Euclid's division lemma *Fundamental theorem of arithmetic *Proofs of irrational number $\sqrt{2}, \sqrt{3}, \sqrt{5}$ ...and so on. *Decimal representation of rational numbers in terms of terminating/non-terminating decimals.  <b>CH-2 Polynomials</b> *Zeroes of a polynomial *Relationship between zeroes and coefficients of quadratic polynomials * statement as simple problems on division algorithm for polynomial with real coefficients.	To find the zero(es) of a quadratic polynomial geometrically.	Students will be able to: explain Euclid's Division, calculate the HCF of numbers using Euclid's Division Lemma and the HCF and LCM of numbers.  Find the zero or zeroes of a polynomial , to verify the relationship between the zeroes and the coefficients of linear, quadratic and cubic polynomials.	Imagination Respect, Team spirit  Thinking skill Facing challenges Drawing skill neatness	Class Test: Oral Written MCQ Worksheet  And extra sums from reference books.



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<b>APRIL</b>	23	<p><b>Ch-3 Pair of linear equations</b></p> <ul style="list-style-type: none"><li>*Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency</li><li>*Solving Pair of linear equation in two variables algebraically by substitution, elimination method</li><li>*Solving by cross multiplication method</li><li>*simple situational problems</li></ul>	To obtain the conditions for consistency of a system of linear equations in two variables by graphical method.	Learners will be able to solve a pair of Linear equations in two variables by using the graphical method algebraic methods, such as substitution, elimination and cross-multiplication, Solve non-linear equations.	Drawing skill Neatness  Creativity	Class Test: Oral Written MCQ Worksheet And extra sums from reference books ppt making
MAY	8	<p><b>Ch-7Coordinate Geometry</b></p> <ul style="list-style-type: none"><li>*Introduction</li><li>*Graph of linear equations.</li><li>*Distance between two points</li><li>*Section formula(internal division)</li><li>*Area of a triangle</li></ul>		Students Will be able to know and use the distance formula , section formula ,		



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<b>JUNE</b>	11	<p><b>Ch-6 Triangle</b></p> <p>Definitions, examples, counter examples of similar triangles.</p> <p>1.(Prove):-If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio.</p> <p>2.(Prove):-If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side .</p> <p>Triangles to be continued....</p> <p>3.(Prove):-If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar.</p> <p>4.(Prove):-If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar.</p> <p>5.If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional the two triangles are similar.</p> <p>6.(Prove):-The ratio of the areas</p>	<p>To illustrate that medians of a triangle occur at a point called the centroid which always lies inside the triangle using paper folding method.</p>	<p>Learners will be able to explain the Concept of similarity, to prove the basic proportionality theorem and its converse, to prove the theorems related to the areas of similar triangles</p>	<p>Creativity Team spirit</p>	<p>ClassTest: Oral Written MCQ Worksheet And extra sums from reference books</p>
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		<p>Of two similar triangles is equal to the ratio of the squares on their corresponding sides.</p> <p>7.(Prove)If a perpendicular is drawn from the vertex at the right angle of a right triangle to the hypotenuse, the triangles on each side of the perpendicular are similar to the whole triangle and each other.</p> <p>Triangles to be continued....</p> <p>8.(Prove):-In a right triangle, the square on the hypotenuse is equal to sum of the squares on the other two sides.</p> <p>9.(Prove):-In a triangle, if the square on one side is equal to the sum of the squares on the other two sides, the angles opposite to the first side is a right angle.</p>				
<b>JULY</b>	26	<p><b>Ch-8 Trigonometry</b></p> <ul style="list-style-type: none"><li>*Introduction to trigonometry</li><li>*Trigonometric identities</li><li>*values(with proofs)of the trigonometric ratios of <math>30^\circ</math>, <math>45^\circ</math>and <math>60^\circ</math>.</li></ul>	Basic proportionality theorem	Students should be able to find the trigonometric ratios of $0^\circ$ , $90^\circ$ , $45^\circ$ , $60^\circ$ and $30^\circ$ and the trigonometric ratios of complementary angles to use different trigonometric identities		Class Test: Oral Written MCQ Worksheet And extra sums from reference books



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<b>AUGUST</b>	24	<b>Ch-12 Areas related to Circle</b> *Motivate the area of a circle, Area of sectors and segments of a circle, problem based on area perimeter/circumference of the above said plane figures*Problem should be restricted to central angle of $60^\circ$ , $90^\circ$ and $120^\circ$ only Plane figures involving triangles, simple quadrilaterals and circle should be taken.	To make a right circular cylinder of given height and circumference of base..	Learners will be able to describe various geometrical terms related to a circle, such as chord, radius, diameter, arc, segment, sector and circumference, to calculate the length of an arc and area of sectors of a circle.	Creativity	Class Test: Oral Written MCQ Worksheet Case study And extra sums from reference books
		<b>Ch-15 Probability</b> *Introduction *classical definition of probability simple problem on single events	To get familiar with the idea of probability of an event through a double colour card experiment.	Facing challenges  Accepting challenges		



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<b>SEPTEMBER</b>	23	<p style="text-align: center;"><b>TERMI EXAM</b></p> <p><b>Ch-4 Quadratic equation</b></p> <ul style="list-style-type: none"><li>*standard form of a quadratic equation <math>ax^2+bx+c=0(a\neq 0)</math>.</li><li>*Solution of the quadratic equation (only real roots) by factorization, and by using quadratic formula.</li><li>*Relationship between discriminant and nature of roots.</li><li>*Situational problems</li></ul> <p><b>Ch-5 Arithmetic Progression</b></p> <ul style="list-style-type: none"><li>*introduction</li><li>Motivation for studying arithmetic progression</li><li>*Derivation of then th term and sum of the first n terms of A.P and their application in solving daily life problems</li></ul>	<p>To verify that the sum of first n natural numbers is <math>n(n+1)/2</math> by graphical method.</p>	<p>learners will be able to find the roots of quadratic equations using the methods of factorisation and completing the square, quadratic formula , to find the nature of the roots of a quadratic eqn.</p> <p>Learners should be able to identify an AP, find the nth term of an AP, sum of the first n positive integers.</p>	imagination	<p style="text-align: center;"><b>TERMI EXAM</b></p> <p>Class Test:</p> <p>Oral</p> <p>Written</p> <p>MCQ</p> <p>Flow chart</p> <p>Worksheet</p> <p>Case study</p> <p>And extra sums from reference books</p>
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OCTOBER	16	<b>Ch-10 circle</b> Tangents to a circle at a point 1.(Prove):-The tangent at any point of a circle is perpendicular to the radius through the point of contact 2.(Prove):-The length of tangents drawn from an external point to circle are equal.	To show that Length of tangents from an external point are equal to a circle.	Learners will be able to explain the Concepts of a tangent of a circle, to prove theorems and solve problems ,	Creativity, Integrity	Class Test: Oral Written MCQ Worksheet Case study And extra sums from reference books
		<b>Ch-9 Some application of trigonometry</b> *Application of the trigonometry i.e heights and distances	To make a clinometer and use it to measure the height of an object.	Students should be able to know about line of sight, angle of elevation, angle of depression. Solve word problems	Problem solving  Creativity, neatness	



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NOVEMBER	19	<b>Ch-14 Statistics</b> *Introduction *Mean, median and mode of grouped data		Students should be able to calculate the mean median and mode of grouped data,	Team spirit, sharing	Class Test: Oral Written MCQ Flow chart Worksheet Case study and extra sums from reference books
NOVEMBER	19	<b>Ch-13 Surface areas and Volumes</b> *surface areas and volume of combination of any two of the following cubes, cuboids, Spheres, hemisphere, right circular cylinder/cones, Problems involving converting one type of metallic solid into another and other mixed problems. *Problems with combination of two different solids	To give a suggestive demonstration of the formula for the volume of a right circular cone	Learners should be able to calculate the surface areas and the volumes of the combination of solids.	Creativity Team spirit	Class Test: Oral Written MCQ Worksheet And extra sums from reference books



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DECEMBER	19	REVISION AND PREBOARD				
JANUARY	20	Revision				
FEBRUARY	23	Revision				Term-II Exam
MARCH	22	<b>TERM II EXAM</b>				

Subject Teacher – GURBAX SINGH SOKHEY

Principal