

**GOOD WORD PUBLIC SCHOOL****REDHILLS, CHENNAI.****ANNUAL CURRICULUM 2020 – 2021****GRADE : IX****SUBJECT: MATHS**

<b>S.NO</b>	<b>MONTH &amp; CHAPTER NAME</b>	<b>LEARNING OBJECTIVES</b>	<b>ACTIVITY</b>	<b>ASSESSMENT</b>
1.	<b>Number System (JUNE)</b>	The students will be able to : <ul style="list-style-type: none"><li>• Irrational Numbers(Understanding )</li><li>• Real numbers and their decimal expansion ( Knowledge )</li><li>• Representing real numbers on the number line (Understanding )</li><li>• Operation on real numbers ( Understanding )</li><li>• Laws of exponents for Real Numbers (Understanding &amp; Application )</li></ul>	Students representing the real numbers on the number line.  Students identify the law of exponent for real numbers.	Worksheet Quiz Asking Question
2.	<b>POLYNOMIALS (JUNE)</b>	The students will be able to : <ul style="list-style-type: none"><li>• Polynomials in one variable (Understanding )</li><li>• Zeroes of a Polynomial ( Understanding )</li><li>• Remainder theorem ( Application &amp; Skill )</li><li>• Factorization of Polynomial ( Understanding )</li><li>• Algebraic Identities (Understanding ).</li></ul>	Students doing the Project to identify the Polynomial and its division.	Test conducted, Project, Quiz.
3.	<b>COORDINATE GEOMETRY (JULY)</b>	The students knowing about : <ul style="list-style-type: none"><li>• Cartesian system ( Skill )</li><li>• Plotting a point in the plane of its coordinates are given (Knowledge).</li></ul>	Students using graph sheet and plotting a joint in the plane.	Identify, Test Conducted.
4.	<b>LINEAR EQUATION IN TWO VARIABLES (JULY)</b>	The students will be able to : <ul style="list-style-type: none"><li>• Linear equations ( Understanding )</li><li>• Solution of a Linear equation in Two Variable ( Application )</li><li>• Equations of lines parallel to X-axis and Y-axis (Skill).</li></ul>	Students doing the Project using many equations of lines are parallel to X and Y-axis.	Quiz, Test conducted, Worksheet.

5.	INTRODUCTION TO EUCLID'S GEOMETRY (AUG)	<p>The students knowing about :</p> <ul style="list-style-type: none"> <li>• Euclid's definitions, axioms and postulates ( Understanding )</li> <li>• Equivalent Versions of Euclid's fifth postulate ( Application ).</li> </ul>	Students doing the project for Euclid's axioms and postulate.	Identify, Assignment, Quiz.
6.	LINES AND ANGLES (AUG)	<p>The students will be able to :</p> <ul style="list-style-type: none"> <li>• Basic terms and definitions ( Understanding )</li> <li>• Intersecting lines and non-intersecting lines (Understanding )</li> <li>• Pairs of Angles ( Skill)</li> <li>• Parallel lines and Transversal (Application )</li> <li>• Lines parallel to the same line ( Understanding )</li> <li>• Angle sum Property of a Triangle ( Understanding )</li> </ul>	Students doing the project using lines and angles are parallel to the same line.	Assignment, Project, Quiz, Asking question.
7.	TRIANGLES (SEPT)	<p>The students will be able to :</p> <ul style="list-style-type: none"> <li>• Congruence of Triangles (Understanding)</li> <li>• Criteria for congruence of Triangles (Understanding)</li> <li>• Some Properties of a Triangle (Application)</li> <li>• Some more criteria for congruence of Triangles (Skill)</li> <li>• Inequalities in a Triangle (Skill).</li> </ul>	Students doing the model for SSS Congruence Rule.	Test conducted, Worksheet, Quiz.
8.	QUADRILATERALS (SEPT)	<p>The students knowing about :</p> <ul style="list-style-type: none"> <li>• Angle sum Property of a Quadrilateral (Understanding)</li> <li>• Types of Quadrilateral (Skill)</li> <li>• Properties of a Parallelogram (Skill)</li> <li>• Another condition for a quadrilateral to be a Parallelogram (Application)</li> <li>• The Mid-point Theorem (Application).</li> </ul>	Students identify the types of quadrilateral. Students doing the project for Mid-point theorem.	Quiz, Asking Question, Assignment.
9.	AREA OF PARALLELOGRAM AND TRIANGLES (OCT)	<p>The students will be able to :</p> <ul style="list-style-type: none"> <li>• Figures on the same base and between the same parallels (Skill)</li> <li>• Parallelogram on the same base and between the same Parallel (Skill)</li> </ul>	Project Parallelogram on the same base and between the same parallel are equal in area.	Identify, Quiz, Worksheet, Test conducted.

		<ul style="list-style-type: none"> <li>• Triangles on the same base and between the same Parallel (Knowledge).</li> </ul>		
10.	CIRCLES (NOV)	<p>The students knowing about ,</p> <p>Circles and its related Terms :</p> <ul style="list-style-type: none"> <li>• A Review (Understanding)</li> <li>• Angle subtended by a chord at a point (Understanding)</li> <li>• Perpendicular from the centre to a chord (Understanding)</li> <li>• Circle through three points (Skill)</li> <li>• Equal chords and their distances from the centre (Knowledge)</li> <li>• Angle subtended by an arc of a circle (Understanding)</li> <li>• Cyclic quadrilaterals (Knowledge).</li> </ul>	Students collecting the many object in the shape of circle.	Assignment, Quiz, Project, Test conducted.
11.	CONSTRUCTIONS (NOV)	<p>The students understanding about :</p> <ul style="list-style-type: none"> <li>• Basic constructions (Understanding)</li> <li>• Some constructions of Triangles (Application)</li> </ul>	Students finding the angle with use of compass and ruler.	Quiz, Test conducted.
12.	HERON'S FORMULA (DEC)	<p>The students will be able to :</p> <ul style="list-style-type: none"> <li>• Area of a Triangle by Heron's formula (Understanding &amp; Skill)</li> <li>• Application of Heron's Formula in finding areas of quadrilaterals (Skill).</li> </ul>	Students identify the Heron's formula.	Assignment, Quiz, Project.
13.	SURFACE AREAS AND VOLUMES (DEC)	<p>The students will be able to :</p> <ul style="list-style-type: none"> <li>• Surface area of a cuboid and a cube (Understanding)</li> <li>• Surface area of a right circular cylinder (Application)</li> <li>• Surface area of a right circular cone (Understanding)</li> <li>• Surface area of a sphere (Understanding)</li> <li>• Volume of a cuboid (Skill)</li> <li>• Volume of a cylinder (Skill)</li> <li>• Volume of a right circular</li> </ul>	<p>Students doing several projects under the topic Surface areas and volumes.</p> <ul style="list-style-type: none"> <li>• Cube</li> <li>• Cuboid</li> <li>• Cone</li> <li>• Cylinder</li> <li>• Sphere.</li> </ul>	Worksheet, Test conducted, Quiz, Assignment.

		cone (Knowledge) <ul style="list-style-type: none"> <li>• Volume of a sphere (Understanding).</li> </ul>		
14.	STATISTICS (JAN)	The students understanding about : <ul style="list-style-type: none"> <li>• Collection of data (Knowledge)</li> <li>• Presentation of data (Understanding &amp; Skill)</li> <li>• Graphical representation of data (Understanding)</li> <li>• Measures of central tendency (Application)</li> </ul>	Students collecting the data and analyzing Graphically.	Worksheet, Identity, Test conducted.
15.	PROBABILITY (FEB)	The students will be able to : <ul style="list-style-type: none"> <li>• Probability – An experimental Approach (Understanding &amp; Application)</li> </ul>	Students doing several activity with use of cards, coins, die, colour balls etc.	Assignment, Quiz.