SYLLABUS FOR THE ACADEMIC SESSION 2020-21
CLASS – VIII

MATHEMATICS

Month	Unit	Topics	Sub-Topics
April May	1	Rational Number	1. Properties 2. Representation on a number line 3. Four operations 4. Applications
	2	Exponents	1. Laws and its applications 2. Standard form
	3	Data Handling	1. Frequency distribution table 2. Bar Graph 3. Histogram 4. Pie Chart
June	**Syllabus for Pre Mid-Term Examination (Unit 1 to 3)**		
June	4	Algebraic Expressions and Identities	1. Fundamental Operations on algebraic expressions 2. Identities
July	5	Comparing Quantities	1. Percentage 2. Profit and Loss 3. Discount 4. Sales Tax 5. To find CI when: (a). Compounded Annually (b). Compounded Half-Yearly (c). Rates are different for different years (d). Time is a fraction (e). Application on CI (Depreciation) (f). Interest compounded Quarterly
August	6	Linear Equation In One Variable	1. Solving Equations which have Linear Expression on one side and numbers on the other side and its Application. 2. Solving Equations which have Linear Expression on both sides and its application. 3. Reducing Equations to Simpler form. 4. Equation Reducible to the Linear Form.
August	7	Practical Geometry	Construction of Quadrilaterals 1. When four sides and one diagonal is given 2. When three side and two diagonals are given 3. When three side and two included angles are given 4. When two adjacent sides and three angles are given 5. When four sides and one angle are given Construction of Special Type of Quadrilaterals: 1. Square 2. Rectangle 3. Rhombus 4. Parallelogram 5. Trapezium
September	**Syllabus for Half - Yearly - Unit 1 to 7**		
September	8	Squares and Square Roots	1. Perfect squares and Square numbers. 2. Pythagorean Triplet 3. Square roots by prime factorisation and long division method
	9	Cubes and Cube Roots	1. Finding out cube root of a number by prime factorisation method.
	10	Factorisation	1. Taking Common 2. Grouping and Taking Common 3. Using Identities 4. Middle Term Factorisation
October	11	Mensuration	1. Area of Trapeziums and Polygons 2. Volume and Surface Area of a. Cube b. Cuboid and c. Right Circular Cylinder
November	**Syllabus for Post Mid-Term Examination - Unit 8,9,10,11**		
November	12	Understanding Quadrilaterals	1. Definion and Classification of Polygons. 2. Angle sum Property of Quadrilaterals. 3. Sum of the Interior and Exterior Angles of a Polygon 4. Kinds of Quadrilaterals 5. Some Special Parallelograms
	13	Direct & Inverse Proportion	1. Direct Proportion 2. Inverse Proportion 3. Problems on Time and Work
December	14	Introduction to Graphs	1. Difference between Line graph and Linear Graph 2. Basic concept of coordinate axes and the quadrants and the sign conventions related to it. 3. Plotting of points 4. Linear Graphs
January	**Revision**		
February	**Syllabus for Annual Examination – Unit 8 to 14 and Units 4,6 & 7**		