

**ACADEMIC PLANNER 2022-23**

**Mathematics**

**Class IX**

<b>DATES/MONTHS</b>	<b>CONCEPT TO BE TAKEN</b>	<b>C.W/H.W./ASSIGN.</b>	<b>Activity/Mode of assessment</b>
<b>APRIL</b>			
1-15 (10 days)	<b>Ch-1 NUMBER SYSTEM</b> Introduction.	EX-1.1	Online Assessment Educosoft
	Irrational nos.	EX-1.2	
	Representation of Real nos. on no. line.	EX-1.3, 1.4	
16-30 (13 days)	Operations on Real Nos.	EX-1.5	
	Laws of exponents for Real Numbers.	EX-1.6	
	<b>Ch-3 COORDINATE GEOMETRY</b> Introduction	EX-3.1	SDG awareness through Coordinate Geometry.
	Cartesian System	EX-3.2	
	Plotting of a point	EX-3.3	
<b>MAY</b>			
1-15 (10 days)	<b>Ch- 4 LINEAR EQUATION IN TWO VARIABLES</b> Introduction		Online Assessment Educosoft
	Formation of Linear equations	EX-4.1	
	Solution of Linear equation	EX-4.2	
	Graph of Linear Equation	EX-4.3	
	<b>Ch-5 Introduction to Euclid's Geometry</b> Introduction		
	Euclids Definition, axioms and postulates	EX.- 5.1	
<b>JULY</b>			
	<b>Ch- 6 LINES AND ANGLES</b> Introduction	EX-6.1	Online Assessment Educosoft
1-15 (12 days)	Basic terms and Definition		
	Intersecting and non intersecting lines. Pairs of angles		
16-31 (13 days)	<b>Ch- 7 TRIANGLES</b> Introduction to congruence.	EX-7.1	Angles opposite to equal sides are equal
	Conditions for Congruence of triangles.	EX-7.2	
	Isosceles triangle property RHS congruency rule	EX-7.3	
<b>AUGUST</b>			
1-15 (9 days)	<b>Ch- 12 HERON'S FORMULA</b> Introduction		Online Assessment Educosoft
	Area of a triangle when lengths of the sides of a triangle are given.	EX-12.1	
16-31 (13 days)	<b>Ch- 14 STATISTICS</b> Bar Graph		Online Assessment Educosoft
	Histogram of uniform width		
	Histogram of varying width. Frequency Polygons	EX-14.3	
<b>SEPTEMBER</b>			
1-15 (12 days)	<b>Revision for Half yearly exams</b>		
16-30 (13 days)	<i>Half Yearly Examination</i>		

<b>OCTOBER</b>			
1-15	<b>Ch- 13 SURFACE AREAS AND VOLUMES</b>		To form a Cone from a Sector of a Circle and to find the formula for its Curved Surface Area
(8 days)	Introduction		
	SA of Right Circular Cone.	Ex -13.3	
	SA of a Sphere.	EX-13.4	
16-31	Volume of Right circular cone	EX-13.7	
(10 days)	Volume of sphere	EX-13.8	
<b>NOVEMBER</b>			
	<b>Ch-2 POLYNOMIAL</b>		
1-15	Introduction		Online Assessment Educusoft
(11 days)	Polynomials in one variable	EX-2.1	
	Zeroes of a polynomial	EX-2.2	
	Remainder Theorem		
	Factor Theorem	EX-2.3	
	Factorization	EX-2.4	
	Algebraic Identities	EX-2.5	
	<b>Ch- 8 QUADRILATERALS</b>		
16-30	Introduction		Online Assessment Educusoft
(13 days)	Angle sum property of a quadrilateral		
	Properties of Parallelogram		
	Properties of rectangle		
<b>DECEMBER</b>			
1-15	Properties of Rhombus		
(12 days)	Properties of Square	EX- 8.1	
	Mid point theorem.		
	Converse of Mid point theorem.	EX- 8.2	
16-31	<b>Ch- 10 CIRCLES</b>		
(14 days)	Introduction to basic properties and various parts of a circle.	Ex -10.1	Online Assessment Educusoft
	Angles subtended by equal arcs at the centre are equal and vice-versa.	Ex -10.2	
<b>JANURARY</b>			
16-31	Perpendicular from the centre to the chord bisects the chord and vice-versa	Ex-10.3	To verify that angle subtended by an arc at the centre is double the angle subtended by it on the remaining part of circle.
(13 days)	Circle through three given non collinear points.	Ex-10.4	
	Angle subtended by an arc at the centre.		
	Angle by an arc in the same segment		
	Cyclic Quadrilateral	Ex-10.5	
<b>FEBRUARY</b>			
1-15	<b>REVISION FOR ANNUAL EXAM</b>		
(12 days)			
16-28	<b>ANNUAL EXAMINATION</b>		
(10 days)			
<b>TERMWISE SYLLABUS</b>			
Class Test-1	Chapter-1		
Class Test-2	Chapter-3,4		
Half yearly	Chapter-1,3,4,6,7,12,14		
Class Test-3	Chapter-13		
Class Test-4	Chapter-2		
Annual Exams	Chapter-1,2,3,4,6,7,8,10,12,13,14		