

ACADEMIC PLANNER 2019-20			
Mathematics			
Class IX			
DATES/MONTHS	CONCEPT TO BE TAKEN	C.W/H.W./ASSIGN.	Activity/Mode of Assessment
APRIL			
1-15 (11 days)	Ch-1 NUMBER SYSTEM Introduction. Irrational nos. Representation of Real nos. on no. line. Operations on Real Nos. Laws of exponents for Real Numbers.	EX-1.1 EX-1.2 EX-1.3, 1.4 EX-1.5 EX-1.6	To construct the square root spiral
16-30 (11 days)	Ch-2 POLYNOMIAL Introduction Polynomials in one variable Zeroes of a polynomial Remainder Theorem Factor Theorem Factorization Algebraic Identities	EX-2.1 EX-2.2 EX-2.3 EX-2.4 EX-2.5	Online Assessment Educsoft
MAY			
1-15 (11 days)	Ch-3 COORDINATE GEOMETRY Introduction Cartesian System Plotting of a point	EX-3.1 EX-3.2 EX-3.3	
	Ch- 4 LINEAR EQUATION IN TWO VARIABLES Introduction Formation of Linear equations Solution of Linear equation	EX-4.1 EX-4.2	Verification of algebraic identity $(a+b+c)^2 = a^2+b^2+c^2+2ab+2bc+2ca$
JULY			
1-15 (12 days)	Ch- 4 LINEAR EQUATION IN TWO VARIABLES (contd.) Graph of Linear Equation Equations of lines parallel to x-axis and y-axis	EX-4.3 EX-4.4	
	Ch- 6 LINES AND ANGLES Introduction Basic terms and Definition Intersecting and non intersecting lines. Pairs of angles Parallel lines and Transversal	EX-6.1 EX-6.2 EX-6.3 EX-6.4	To find the centroid of a triangle and verify that centroid divides the median in the ratio 2:1
16-31 (14 days)	Ch- 7 Triangles Introduction to congruence. Conditions for Congruence of triangles. Isosceles triangle property RHS congruency rule Inequalities in a triangle	EX-7.1 EX-7.2 EX-7.3 EX-7.4	Online Assessment Educsoft
AUGUST			
1-15 (10 days)	Ch-12 HERON'S FORMULA Introduction Area of a triangle when lengths of the sides of a triangle are given. Area of Quadrilaterals by Heron's formula	EX-12.1 EX-12.2	
16-31 (13 days)	Ch- 5 INTRODUCTION TO EUCLID GEOMETRY. Euclid's definitions, Axioms and Postulates. Equivalent versions of Euclid's Fifth Postulate.	EX-5.1 EX-5.2	Online Assessment Educsoft
SEPTEMBER			
1-15 (10 days)	Ch-15 Probability Revision for Half yearly exams		
16-30 (13 days)	Half Yearly Examination		
OCTOBER			
1-15 (6 days)	Ch- 13 SURFACE AREAS AND VOLUMES Introduction SA of cuboids & cube SA of Right Circular Cylinder. SA of Right Circular Cone. SA of a Sphere.	Ex-13.1 Ex-13.2 Ex -13.3 Ex-13.4	To form a Cone from a Sector of a Circle and to find the formula for its Curved Surface Area
16-31 (11 days)	Volume of Cuboid Volume of Right Circular Cylinder. Volume of Right circular cone Volume of sphere	Ex-13.5 Ex-13.6 EX-13.7 EX-13.8	Online Assessment Educsoft
NOVEMBER			
1-15 (11 days)	Ch- 14 STATISTICS Introduction Frequency Distribution for Grouped & Ungrouped Data. Histogram of uniform width Histogram of varying width. Frequency Polygons Mean, Median, Mode of the ungrouped data	EX-14.1 EX-14.2 EX-14.3 EX-14.4	Online Assessment Educsoft
16-30 (13 days)	Ch- 8 QUADRILATERALS Introduction Angle sum property of a quadrilateral Properties of Parallelogram Properties of rectangle Properties of Rhombus Properties of Square Mid point theorem.	EX- 8.1	

	Converse of Mid point theorem.	EX- 8.2	To verify that the straight line joining Mid-Points of any two sides of a triangle is parallel to the third side and is equal to half of it.
DECEMBER			
1-15 (12 days)	Ch- 9 AREAS OF PARALLELOGRAM AND TRIANGLES Introduction to figures on Same base & between same parallels Parallelograms on the same base and between same parallels are equal in Area Triangles on the same base & between the same parallels Median of a triangle divides it into 2 triangles of equal area	Ex -9.1 Ex -9.2 Ex -9.3	Online Assessment Educusoft
16-31 (13 days)	Ch- 10 CIRCLES Introduction to basic properties and various parts of a circle. Angles subtended by equal arcs at the centre are equal and vice-versa. Perpendicular from the centre to the chord bisects the chord and vice-versa Circle through three given non collinear points. Angle subtended by an arc at the centre. Angle by an arc in the same segment Cyclic Quadrilateral	Ex -10.1 Ex -10.2 Ex-10.3 Ex-10.4 Ex-10.5	To verify that angle subtended by an arc at the centre is double the angle subtended by it on the remaining part of circle.
JANURARY			
1 - 15	Winter Break		
16-31 (14 days)	Ch- 11 CONSTRUCTIONS Introduction Basic constructions Construction of triangles When sum of two sides is given. When difference of two sides is given.	EX-11.1 EX-11.2	Online Assessment Educusoft
FEBRUARY			
1-15 (11 days)	Revision for Annual Exams		
16-28 (11 days)	Annual Examination		
TERMWISE SYLLABUS			
Unit Test - 1		Online Assessment + written test of Chapters -1,2,3,4	
Half yearly		Chapter-1,2,3,4,5,6,7,12	
Unit Test - 2		Online Assessment + written test of Chapters- 13, 14, 15	
Annual Exams		Chapter-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15	