

SYLLABUS BREAK-UP
CLASS IX MATHEMATICS

Chapters	Topics
1. Chapter -2	Polynomials
	2.1 Introduction
	2.2 Polynomials in One Variables
	2.3 Zeroes of Polynomial
	2.4 Remainder Theorem
	2.5 Factorization of Polynomials
	2.6 Algebraic Identities
	Problem discussion
Activity 1	Factorization of Polynomials
2. Chapter -1	Number System
	1.1 Introduction
	1.2 Irrational Numbers
	1.3 Real Numbers and their Decimal Expansion
	1.3 Real Numbers and their Decimal Expansion
	1.4 Representing Real Numbers on the Number Line
	1.5 Operations on Real Numbers
	1.6 Laws of Exponents for Real Numbers
	Problem Discussion
3. Chapter -6	Lines and angles
	6.1 Basic Terms & definitions
	6.2 Intersecting lines and Non Intersecting Lines
	6.3 Pairs of angles
	6.4 Parallels Lines and a Transversal
	6.5 Lines Parallel to the same Lines
	6.6 Angle sum Property of a Triangle
	Problem discussion
4. Chapter -7	Triangles
	7.1 Congruence of triangles
	7.2 Criteria for congruence of triangles
	7.3 Some properties of a Triangle
	7.4 Some more criteria for the congruence of the Triangles
	7.5 Inequalities in a Triangle
	Problem discussion
Activity 2,3	Centroid and Incentre of a triangle
	Revision for Pre Mid Term Examination
5. Chapter -5	Introduction to Euclid's Geometry
	5.1 Euclid's Definition, Axioms and Postulates
	5.2 Equivalent version of Euclid's Fifth Postulate
	Problem discussion
6. Chapter -3	Co-ordinate Geometry
	3.1 Introduction of a Cartesian System
	3.2 Plotting a Point in the Plane
	Problem Discussion
7. Chapter -12	Heron's formula
	12.1 Area of a triangle by Heron's formula
	12.2 Application of a Heron's Formula
	Problem discussion

8. Chapter -8	Quadrilaterals
	8.1 Angle sum Property of a Quadrilateral
	8.2 Types of quadrilateral
	8.3 Properties of Parallelogram
	8.4 Another condition for a Quadrilateral to be a Parallelogram
	8.5 The Mid Point Theorem
	Problem discussion
9. Chapter -9	Area of Parallelogram and Triangles
	9.1 Figure on the same Base and between the same Parallels
	9.2 Parallelogram on the same Base and between the same parallels
	9.3 Triangles on the same base and between the same parallels
	Problem Discussion
Activity 4	Mid Point theorem
Activity 5	Area of a Parallelogram & Area of a Trapezium
Activity 6	Parallelogram on the same base
	Lab Activities - 05
	Revision for Mid Term Examination
10. Chapter -4	Linear Equation in Two Variables
	4.1 Introduction of Linear Equation
	4.2 Solution
	4.3 Graph of Linear Equation in two variables
	4.4 Equation of Lines parallel to x- axis and y axis
	Problem discussion
11. Chapter -15	Probability
	15.1 Probability an Experiment Approach
	Problem discussion
12. Chapter -11	CONSTRUCTIONS
	11.1 Basic constructions
	11.2 Some constructions of triangle
	Problem discussion
13. Chapter -10	Circles
	10.1 Circles and its related terms: A review
	10.2 Angle subtended by a chord at a point
	10.3 perpendicular from the centre to a chord
	10.4 Circle through three points
	10.5 Equal chords and their Distances from the Centre
	10.6 Angle subtended by an arc of a Circle
	Problem Discussion
Activity 7	Central Angle Theorem of circles
Activity 8	Angles in the Same Segment
Activity 9	Angles in Major and Minor segments
Activity 10	Cycle quadrilateral
14. Chapter -14	STATISTICS
	14.1 Collection of Data
	14.2 Presentation of data
	14.3 Graphical Representation of data
	14.4 Measure of Central Tendency
	Problem Discussion
15. Chapter -13	SURFACE AREA AND VOLUMES
	13.1 Surface area of a cuboids and cube
	13.2 Surface area of right Circular Cylinder
	13.3 Surface area of a Right Circular cone
	13.4 Surface Area of a Sphere
	13.5 Volume of Cube and Cuboids
	13.6 Volume of Cylinder
	13.7 Volume of right Circular Cone
	13.8 Volume of sphere
	Problem discussion
	LAB ACTIVITIES-5
	Revision for Post Mid Term Examination
	Activity Based Test Conduction
	Revision for Annual Examination