

Curriculum

Session – 2022-23 Subject- Mathematics

Class –IX

Month	FEB	MARCH	APRIL	MAY	JUNE
Aonth Concepts earning Dutcomes	Ch. 1 Numbers Systems Systems Systems Systems Understand the meaning of irrational numbers Represent irrational numbers on the number line. Construct a square root spiral. Understand decimal expansion of real numbers and their representation in the	Class –I MARCH Ch.2 Polynomials Ch.3 Coordinate Geometry Ch. 4 Linear Equations in two variables Students will be able to Understand the polynomials and their types Solve zeros of polynomials Understand and apply the Remainder and Factor theorem in polynomials. Understand Factor theorem in polynomials. Understand Factorization of polynomials by using algebraic identities. Explore linear equations in two	APRIL Ch. 4 Linear Equations in two variables (Contd.) Ch. 5 Introduction to Euclid's Geometry Students will be able to • Draw the graph of a Linear Equation in Two Variables related to real life situations. • Define and understand	Ch. 6 Lines and Angels Ch. 7 Triangles Students will be able to • Recognize pairs of angles and classify them.	JUNE Ch.8 Quadrilaterals Students will be able to • Recognize the properties of parallelograms. • Apply midpoint theorem
	 form p/q. Comprehend the term rationalization of the denominator along with the rationalizing factor. Apply Laws of Exponents for Real 	 equations in two variables. Understand the meaning of Coordinate Geometry and its origin Locate and analyze the position of an object or a point in a plane. 			
Skills	Numbers Knowledge/Understandi ng/Application/ Critical Thinking	Knowledge/Understanding/Cri tical Thinking/Problem Solving	Knowledge/ Understanding/ Application/ Evaluation	Knowledge/Understa nding/Application/ Critical Thinking	Knowledge/Understan ding/Application/Prob em Solving
Activities	Competency-skill based activity/Experiential Learning:To construct a square root spiral(Lab Manual)	Competency-skill based activity/Experiential Learning: To find the values of abscissa and ordinates of various points given in a Cartesian plane. (Lab Manual)	Competency-skill based activity/Experiential Learning: Graph paper for linear equations.	Competency-skill based activity/Experiential Learning: Hands on activity (lines and angles)	Competency-skill based activity/Experienti al Learning: Mid- point Theorem, paper folding and cutting
Assessments	 Periodic Tests Multiple Assessments Portfolio Student Enrichment A Main Book: NCERT 	ctivities-practical work			



Curriculum Session – 2022-23 Subject- Mathematics

Class –IX

Month	JULY/AUGUST	SEPTEMBER	OCTOBER	NOVEMBER/DECEMBER
Concepts	Ch. 10 Circles	Ch.12 Heron's Formula	Ch.13 Surface area and Volume	Ch. 14 Statistics
Learning	Students will be able to	Students will be able to	Students will be able to	Students will be able to • Represent data graphically
Outcomes	 Describe circles and its Related Terms. Demonstrate angles Subtended by a Chord and an Arc and perpendicular from the Centre to a Chord. Describe a cyclic Quadrilateral. 	 Identify and apply heron's formula in finding areas of polygon. Calculate area of a triangle by Heron's Formula 	 Describe surface Area of a right circular cone, sphere and hemisphere. Formulate volume of a right circular cone, sphere and hemisphere. 	 Recapitulate all the concepts
Skills	plication/Critical	Knowledge/Understanding/App lication/Critical Thinking/Problem Solving	Knowledge/Understanding/Applica tion/Analysis/Synthesis	Knowledge/Understanding/Applic ation/Analysis/Synthesis
Activities		Competency-skill based activity/Experiential Learning: To find area of a triangle by Heron's Formula. (Lab Manual)	To form a cone from a sector of a circle and to find the formula for	Competency-skill based activity/Experiential Learning: To draw histograms for classes of equal widths by collecting data from day to day life such as heights of students. (Lab Manual)
Assessments	 Periodic Tests Multiple Assessmer Portfolio Student Enrichment Main Book: NCERT 	ts Activities-practical work	1	1