

Curriculum Subject: Mathematics (041) Class: IX Session: 2024-25

Month	APRIL	ΜΔΥ	JUNE	JULY				
Concepts	Ch. 1 Number Systems	Ch.3 Coordinate Geometry	Ch. 5 Introduction					
	Ch.2 Polynomials	Ch. 4 LinearEquations in two	To Euclid's Geometry	Ch. 7 Triangles				
		variables	Ch. 6 Lines and Angels	_				
	Students will be able to	Students will be able to	Students will be able to	Students will be able to				
Learning	 Understand the meaning of 	 Understand the meaning of 	Define and understand	 Know and demonstrate the 				
Outcomes	irrational numbers.	Coordinate Geometry and its	Euclid's Definitions, Axioms	ability to find correct criteria				
	 Represent irrational 	origin.	and Postulates.	for congruence of triangles.				
	numbers on the number	 Locate and analyze the position o 	f Recognize pairs of angles and	1				
	line.	an object or a point in a plane.	classify them.					
	 Construct a square root 	• Explore linear equations						
	spiral.	 Draw the graph of a 						
	 Understand decimal 	Linear Equation in Two						
	expansion of real numbers	Variables related to real						
	and their representation in	life situations.						
	the form p/q.							
	 Comprehend the term 							
	rationalization of the							
	denominator along with the							
	rationalizing factor							
	• Apply Laws of Exponents							
	for Real Numbers.							
	Understand the							
	polynomials and their							
	types.							
	 Understand and apply 							
	the Remainder and							
	Factor theorem in							
	polynomials.							
	 Understand 							
	Factorization of							
	polynomials by using							
	algebraic identities.							
Skills	Knowledge/ Understanding/	Knowledge/ Understanding/	Knowledge/ Understanding/	Knowledge/ Understanding/				
	Application/ Critical Thinking	Critical Thinking/ Problem Solving	Application/ Evaluation	Application/ Critical Thinking				
Activities	Competency-skill based	Competency-skill based	Competency-skill based	Competency-skill based				
	activity/Experiential Learning:	activity/Experiential Learning: To	activity/Experiential	activity/Experiential Learning:				
	l o construct a square root	find the values of abscissa and	Learning: Hands on activity	Basic paper folding activity.				
	spiral.	ordinates of various points given	(intes and angles).					
Art	English Art	III a Cartesian plane.	Art English Dhysics	A rt				
Art Integration	English, Art	ALL, ENGLISH, PHYSICS, CHEMISTRY	AIT, ENGLISH, PHYSICS					
Assessments	Periodic Tests			1				
	 Multiple Assessments Portfolio Student Enrichment Activities - practical work 							
	Main Book: NCERT							
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Month	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
Concepts	Ch.12 Heron's	Ch. 8 Quadrilaterals	Ch. 10 Circles	Ch.13 Surface area and	Ch. 14 Statistics		
	Formula			Volume			
	Students will be able to	Students will be able to	Students will be able to	Students will be able to	Students will be able to		
Learning	 Identify and 	 Recognize the 	 Describe circles and 		 Represent data 		
Outcomes	apply heron's	properties of	its Related Terms.	Describe surface Area of	graphically.		
	formula in	parallelograms.	 Demonstrate angles 	a right circular cone,	 Recapitulate all the 		
	finding areas of	 Apply midpoint 	Subtended by a Chord and	sphere and hemisphere.	concepts.		
	polygon.	theorem.	an Arc and perpendicular	 Formulate volume of a 			
	 Calculate area of 		from the centre to a Chord.	right circular cone,			
	a triangle by		 Describe a cyclic 	sphere and hemisphere.			
	Heron's Formula.		Quadrilateral.				
Skills	Knowledge/	Knowledge/	Knowledge/Understanding/	Knowledge/Understanding/	Knowledge/		
	Understanding/	Understanding/	Application/Analysis/Synthesis	Application/Analysis/	Understanding/		
	Application/ Critical	Application/ Critical		Synthesis	Application/Problem		
	Ininking/ Analysis/	Thinking/ Problem Solving			Solving		
Activities	Competency-skill	Competency_skill	Competency-skill based	Comnetency-skill based	Competency-skill based		
Activities	based	based	activity/Experiential	activity/Experiential	activity/Experiential		
	activity/Experiential	activity/Experiential	Learning: Angle subtended	Learning:	Learning:		
	Learning: To find area	Learning: Midpoint	by an arc of a circle at the	To form a cone from a	To draw histograms for		
	of a triangle by	theorem (By paper	center is double the angle	sector of a circle and to	classes of equal widths		
	Heron's Formula.	cutting and pasting).	subtended by it at any point	find the formula for its	by collecting data from		
			on the remaining part of the	curved surface area.	day to day life such as		
			circle using.		heights of students.		
Art	Art, English	Art	Art, English, Geography	Art, English, Physics	Art, English, Physics		
Integration							
Assessments	Periodic Tests						
	 Multiple Assessments Portfolio Student Enrichment Activities - practical work 						
	Main Book: NCERT						