

Curriculum Subject- Mathematics (041) Class – IX Session – 2025-26

Month	APRIL	MAY	JUNE	JULY	
Concepts	Ch. 1 Number Systems Ch.2 Polynomials	Ch.3 Coordinate Geometry Ch. 4 LinearEquations in two variables	Ch. 5 Introduction To Euclid's Geometry Ch. 6 Lines and Angels	Ch. 7 Triangles	
Learning Outcomes	 Students will be able to Describe the meaning of irrational numbers. Represent irrational numbers on the number line. Construct a square root spiral. Describe decimal expansion of real numbers and their representation in the form p/q. Comprehend the term rationalization of the denominator along with the rationalizing factor. Apply Laws of Exponents for Real Numbers. Describe the polynomials and their types. Solve zeros of polynomials. Describe Factorization of polynomials by using algebraic identities. 	 Students will be able to Describe the meaning of Coordinate Geometry and its origin. Locate and analyze the position of an object or a point in a plane. Explore linear equations in two variables. Draw the graph of a Linear Equation in Two Variables related to real life situations. 	 Students will be able to Define and Describe Euclid's Definitions, Axioms and Postulates. Recognize different types of angles and classify them. Describe and identify pairs of angles. Define a transversal and identify the angles formed by a transversal intersecting two parallel lines. 	 Students will be able to Know and demonstrate the ability to find correct criteria for congruence of triangles. 	
Skills	Logical and Analytical Thinking/Numeracy and Computational Skills/Spatial and Visual Understanding	Logical and Analytical Thinking/Numeracy and Computational Skills/Spatial and Visual Understanding/Academic and Life Skills/Personal Development	Logical and Analytical Thinking/Numeracy and Computational Skills/Spatial and Visual Understanding	Logical and Analytical Thinking/Spatial and Visual Understanding	
Activities	Competency-skill based activity/Experiential Learning: To construct a square root spiral.	Competency-skill based activity/Experiential Learning: To find the values of abscissa and ordinates of various points given in a Cartesian plane.	Competency-skill based activity/Experiential Learning: Hands on activity (lines and angles).	Competency-skill based activity/Experiential Learning: Basic paper folding activity.	
Art Integration	English, Art	Art, English, Physics, Chemistry	Art, English, Physics	Art	
Assessments	Periodic Tests Multiple Assessments Portfolio Student Enrichment Activities - practical work Main Book: NCERT				



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Month	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER/DECEMBER
Concepts	Ch.10 Heron's Formula	Ch. 8 Quadrilaterals	Ch. 9 Circles	Ch.11 Surface area and Volume Ch. 12 Statistics
Learning Outcomes	 Students will be able to Identify and apply heron's formula in finding areas of polygon. Calculate area of a triangle by Heron's Formula. 	 Students will be able to Recognize the properties of parallelograms. Apply the mid-point theorem. 	 Students will be able to 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. 	 Students will be able to Describe surface Area of a right circular cone, sphere and hemisphere. Formulate volume of a right circular cone, sphere and hemisphere. Represent data graphically. Recapitulate all the concepts.
Skills	Logical and Analytical Thinking/Spatial and Visual Understanding	Logical and Analytical Thinking/Spatial and Visual Understanding	Logical and Analytical Thinking/Spatial and Visual Understanding	Logical and Analytical Thinking/Numeracy and Computational Skills/Spatial and Visual Understanding/Academic and Life Skills
Activities	Competency-skill based activity/Experiential Learning: To find area of a triangle by Heron's Formula.	Competency-skill based activity/Experiential Learning: Midpoint theorem (By paper cutting and pasting).	Competency-skill based activity/Experiential Learning: Angle subtended by an arc of a circle at the center is double the angle subtended by it at any point on the remaining part of the circle.	Competency-skill based activity/Experiential Learning: To form a cone from a sector of a circle and to find the formula for its curved surface area.
Art Integration	Art, English	Art	Art, English, Geography	Art, English, Physics
Assessments	 Periodic Tests Multiple Assess Portfolio Student Enricht Main Book: NCERT 	sments ment Activities - practical	work	