NEW ERA PUBLIC SCHOOL

Syllabus (2026-27)

Class: IX

Subject: Mathematics (Term II)

Prescribed Book:

GANITA MANJARI NCERT(Part I & II)

S. No	Month	Topic	Subtopic	Learning Objectives
1	September	Chapter 7: The Mathematics of Maybe: Introduction to Probability Chapter 8: Predicting What Comes Next: Exploring Sequences and Progressions	• What is Probability and Randomness? The Probability Scale • Measuring probability objectively • Experimental Probability: Performing Observations or Experiments • Theoretical Probability • Elements of Probability: Sample space and Events • Tree diagram • Introduction to Sequences • Explicit rule for a Sequence • Recursive rule for Sequences • Arithmetic Progressions	• To define uncertainty numerically using a strict probability scale from 0 (impossible) to 1 (certain). • To build complete sample spaces to map out every single possible outcome of an event. • To distinguish between experimental tracking (counting live trials) and theoretical predictions (using fair formulas). • To create visual tree diagrams and tables to trace paths in multi-step scenarios. • To write explicit and recursive algebraic rules to define an ordered list of numbers. • To understand Arithmetic Progressions (AP) that grow or shrink by adding a constant common difference.
2	October	Chapter 8: Predicting What Comes Next: Exploring Sequences and Progressions Chapter 13: Two Variables, One Line	• Sum of first n Natural Numbers • Geometric Progressions • Linear Equations in Two Variables and Standard Form	• To identify Geometric Progressions (GP) that multiply out exponentially by a common ratio. • To connect sequences to famous visual patterns, such as the Virahanka-Fibonacci sequence and fractals. • To formulate linear equations in two variables ($ax + by + c = 0$) from word problems.

			• Solutions of a Linear Equation • Graph of a Linear Equation • Slope and Slope-Intercept Form • Pair of Linear Equations in two variables	• To plot the graph of a linear equation on a Cartesian plane, establishing that it forms a straight line.
			Activity 6 Activity 7	• Visualization of an Arithmetic Progression • Pair of Linear Equation in Two variables
3	November	Chapter13: Two Variables, One Line Chapter 12: Quadrilaterals	• Finding solution to a pair of linear equations(Algebraic and Substitution Method) • Graphical Method • What exactly is a Quadrilateral? • Parallelogram • Applications of Parallelogram • An Important property of Triangles • A Surprising property of Medians • Tiling the Plane using any 4-gon	• To understand the concept of a solution set and interpret the intersection of lines graphically and algebraically. • To prove and apply structural properties of quadrilaterals (specifically parallelograms, rectangles, rhombuses, and squares). • To understand the mid-point theorem and its converse through logical deduction. • To explore tilings and tessellations, identifying how geometric shapes fit together to cover flat spaces without gaps.
			Activity 8 Activity 9	• Mid-point Theorem • Parallelogram formed by joining Mid-points of a Quadrilateral
4	December	Chapter 11: The World of Algorithms Chapter 14: Math of Space: Surface Area and Volume	• Adding Numbers • Greatest Common Divisor • Data Structures • Improving the Algorithm • Analysing these Algorithms • Euclid's Subtraction Algorithm • Aryabhata's Division Algorithm • Cuboids and Cubes • Right Circular Cylinders • Cones • Pyramidal Shape • Spheres and Hemispheres	• To define and recognize an algorithm as a finite sequence of well-defined instructions. • To apply Euclid's algorithm to find the greatest common divisor of numbers. • To translate procedural thinking into structured mathematical steps. • To visualize and break down 3D solid shapes (cubes, cuboids, cylinders, cones, and spheres). • To derive and calculate the total surface area, lateral/curved surface area, and volume of these solids.

			• Areas and Volumes around us	• To solve multi-step, contextual problems involving the transformation of mass or volume from one solid form to another.
			Activity 10	• To find the HCF experimentally based on Euclid Algorthm
5	January	Chapter 10: How Quantities Combine: Understanding Data Chapter 9: Proposition and their Converses	• Combining Things • Average of Averages • Mixtures • Custom Weights • Visualising and Interpreting Data • Stacking Columns • An alternative to Pie Chart • Proposition • Converse • Counter Examples	• To calculate and interpret weighted averages in real-world scenarios. • To construct, read, and analyze graphical representations like bar charts. • To draw data-driven conclusions and recognize misleading statistical presentations. • To understand what constitutes a mathematical proposition. • To learn how to form, test, and analyze the converse of a given proposition. • To develop logical deduction and structured reasoning skills.
6	February		Revision for Annual Examination	

Subject: Social Science (TermII)

MONTHS	HISTORY	GEOGRAPHY	POLITICAL SCIENCE	ECONOMICS	Learning Objective
		BOOK PART-2			
OCTOBER				**Ch-9 The Price Puzzle: What Drives the Market (Book- Part 1)**	**Ch-The Price Puzzle: What Drives the Market** 1.Interpret how changes in price affect the quantity demanded and quantity supplied of goods and services. 2. Identify the equilibrium price and quantity where demand and supply intersect.
NOVEMBER	**Ch- 3 Resistance and Resilience (1000 CE–1700 CE)**	**Ch-1 Oceans and Life**			**Ch-Resistance and Resilience (1000 CE–1700 CE)** 1.Appreciate how diverse communities and regions shaped India's history from 1000 CE to 1700CE. 2.Explore how regional kingdoms adapted to changing political, economic, and cultural contexts over time.

					Ch-Oceans and Life 1**.**Understand the importance of marine resources for human livelihoods and ecosystems. 2.Examine the relationship between oceans, climate livelihoods, and natural disasters.
DECEMBER		**Ch-2 Life on Earth**		**Ch- 5 Managing Your Personal Finances**	**Ch-Life on Earth** 1.Identify the major biomes of the world and describe their key climatic conditions, characteristic flora, and fauna. 2. Locate biosphere reserves on the map of India. **Ch-Managing Your Finances:** 1.Recognise how managing income, spending, saving, and investment helps achieve financial stability and long-term goals. 2What is income tax?
JANUARY			**Ch-4Governance and Public Policy**	**Ch-6 From Ideas to Startups**	**Ch-Governance and Public Policy** Explain the roots of authority in Indian

					political thought. 2. What is public policy? What makes it public? **Ch-From Ideas to Startups** 1.Define entrepreneurship and explain its mportance in innovation, job creation, and economic growth. 2.Understand the key resources for business.
FEBRUARY		**REVISION**			