NEW ERA SENIOR SECONDARY SCHOOL, NIZAMPURA, VADODARA. APPLIED MATHS SYLLABUS 2025-26 CLASS-XI

MONTH	No. OF	CHAPTER
	DAYS	
April	22	Numbers & Quantification
+	+	Prime Numbers, Encryptions using Prime Numbers
May	3	> Binary Numbers
		> Complex Numbers
		Indices, Logarithm and Antilogarithm, applications of
		logarithm and antilogarithm
		Numerical Applications: Averages, Clock, Calendar, Time,
		Work and Distance, Mensuration, Seating arrangement
JUNE	18	Algebra
00112	10	> Introduction to sets – definition, Types of sets and their
		notations, Subsets, Intervals, Venn diagrams, Operations on
		sets, Ordered pairs Cartesian product of two sets,
		> Relations, Types of relations
		Sequences and Series
		> Arithmetic Progression, Geometric Progression, Application
JULY	26	Permutations and Combinations
		Factorial, Fundamental Principle of Counting, Permutations
		with restrictions, Circular permutation, Combinations,
		Combination with repetition
		Mathematical reasoning
		> Mathematical reasoning, Logical reasoning
AUGUST	22	Calculus
		Functions, Domain and Range of a function, Types of
		 Functions, Graphical representation of functions, Concepts of
		> limits and continuity of a function,
		> Instantaneous rate of change, Differentiation as a process of
		finding derivative, Derivatives of algebraic functions using
		Chain Rule,
		> Tangent line and Equation of tangent,
SEPTEMBER	23	Calculus (cont)
		Probability
		> Introduction, Random experiment and sample space, Event,
		Conditional Probability, Total Probability, Bayes' Theorem
OCTOBER	11	Descriptive Statistics
		> Types of data, Data on various scales, Data representation
		and data visualization, Measure of Central Tendency,
		Measure of Dispersion, Skewness and Kurtosis, Percentile
		rank and Quartile rank, Correlation,
Norm	21	
NOVEMBER	21	Descriptive Statistics (Cont.)

DECEMBER	23	Financial Mathematics > Interest and Interest Rates, Accumulation with simple and compound interest, Simple and compound interest rates with equivalency, > Effective rate of interest, Present value, net present value and future value,
JANUARY	25	Coordinate Geometry > Straight line > Circle > Parabola
FEBRUARY	23	Revision and Annual Exams