

**NEW ERA SENIOR SECONDARY SCHOOL, NIZAMPURA, VADODARA.  
CLASS -11 -APPLIED MATHS SYLLABUS 2026-27**

MONTH	No. OF DAYS	CHAPTER
April + May	23 + 2	<b>Algebra</b> <ul style="list-style-type: none"> <li>➤ Introduction to sets – definition, Types of sets and their notations, Subsets, Intervals, Venn diagrams, Operations on sets, Ordered pairs Cartesian product of two sets,</li> <li>➤ Relations, Types of relations</li> <li>Sequences and Series</li> <li>➤ Arithmetic Progression, Geometric Progression, Application</li> </ul>
JUNE	19	<b>Arithmetic Progression, Geometric Progression, Application(CONT.)</b> <b>Permutations and Combinations</b> <ul style="list-style-type: none"> <li>➤ Factorial, Fundamental Principle of Counting, Permutations with restrictions, Circular permutation, Combinations, Combination with repetition</li> </ul> <b>Mathematical reasoning</b> <ul style="list-style-type: none"> <li>➤ Mathematical reasoning, Logical reasoning</li> </ul>
JULY	26	<ul style="list-style-type: none"> <li>• Mathematical reasoning</li> </ul> <b>Mathematical reasoning, Logical reasoning* (CONT.)</b> <b>Calculus</b> <ul style="list-style-type: none"> <li>➤ Functions, Domain and Range of a function, Types of</li> <li>➤ Functions, Graphical representation of functions, Concepts of</li> <li>➤ limits and continuity of a function,</li> <li>➤ Instantaneous rate of change, Differentiation as a process of finding derivative, Derivatives of algebraic functions using Chain Rule,</li> <li>➤ Tangent line and Equation of tangent,</li> </ul>
AUGUST	23	<ul style="list-style-type: none"> <li>➤ Calculus (cont)</li> </ul> <b>Probability</b> <ul style="list-style-type: none"> <li>➤ Introduction, Random experiment and sample space, Event, Conditional Probability, Total Probability, Bayes' Theorem</li> </ul> <b>Coordinate Geometry</b> <ul style="list-style-type: none"> <li>➤ Straight line</li> <li>➤ Circle</li> <li>➤ Parabola</li> </ul>
SEPTEMBER	23	<ul style="list-style-type: none"> <li>• Coordinate Geometry (CONT.)</li> </ul> <b>Numbers &amp; Quantification</b> <ul style="list-style-type: none"> <li>➤ Prime Numbers, Encryptions using Prime Numbers</li> <li>➤ Binary Numbers</li> <li>➤ Complex Numbers</li> <li>➤ Indices, Logarithm and Antilogarithm, applications of logarithm and antilogarithm</li> </ul> <b>Numerical Applications: Averages, Clock, Calendar, Time, Work and Distance, Mensuration, Seating arrangement</b>

OCTOBER	23	<b>Descriptive Statistics</b> <ul style="list-style-type: none"> <li>➤ <b>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,</b></li> </ul>
NOVEMBER	11	<b>Descriptive Statistics (Cont.)</b>
DECEMBER	23	<b>Financial Mathematics</b> <ul style="list-style-type: none"> <li>➤ <b>Interest and Interest Rates, Accumulation with simple and compound interest, Simple and compound interest rates with equivalency,</b></li> <li>➤ <b>Effective rate of interest, Present value, net present value and future value,</b></li> </ul>
JANUARY	22	➤
FEBRUARY	23	Revision and Annual Exams