

SBP DAV Centenary Public School Fatehabad

Syllabus Division -2023-24

Class XI Applied Mathematics

Month	Chapter/ content	Activities/ Co-curricular Activities
April	Unit-1 Quantification and numerical applications Binary Numbers, Indices, Logarithm and antilogarithms, Averages, Clock, Calendar , Mensuration	Project on Fibonacci sequence: Its' history and presence in nature
May	Unit -2 Algebra Sets Relations Sequences and Series A.P., G.P., A.M., G.M., and its Applications Permutation & Combinations	Smart Purchasing during Sale Season. Comparing sets of Natural numbers, rational numbers, real numbers and others / Use of Venn diagram in solving practical problems of sets
June	Summer Break	
July	Unit – 3 Mathematical and Logical Reasoning Odd man out, Syllogism, Blood Relation, Coding Decoding Unit-4 Calculus Functions Limits & Continuity of a function Differentiation, Derivatives of algebraic function using chain Rule	Plot the graph of functions on excel study the nature of function at various points, drawing lines of tangents. Prepare a report card using scores of the last four exams and compare the performance.

<p>August</p>	<p>Unit 5 Probability Random experiment and sample space, Event, Conditional Probability , Total Probability, Bayes' Theorem Unit 8 Straight Line</p>	<p>How the probability used in determining the insurance premium, weather forecasts etc.</p> <p>How the Coordinate Geometry used in Air Traffic Control in Space</p>
<p>September</p>	<p>Revision & Half yearly Exams</p>	
<p>October</p>	<p>Unit – 6 Descriptive Statistics Measures of Dispersion(M.D., S.D., Variance), Skewness and kurtosis , Percentile rank and quartile rank Correlation (Product Correlation, Karl Pearsons Coefficient of Correlation, Spearman's rank correlation) Unit 8 Circle Parabola</p>	<p>Visit the census site of India http://www.censusindia.gov.in/Census_Data_2001/Census_Data_Online/Language/Statement3.htm Depict the information given there in a pictorial form /Collect the data on weather, price, inflation, and pollution. Sketch different types of graphs and analyze the results</p>
<p>November</p>	<p>Unit -7 Basics of Financial Mathematics Difference between Nominal Interest Rate, Effective Rate and Real Interest Rate Simple Interest and Compound Interest PV, NPV</p>	<p>Create a budget of income and spending Prepare the best option plan to buy a product by comparing cost, shipping charges, tax and other hidden cost</p>

	Annuities Simple applications of regular annuities(upto 3 period) Tax- GST and Income Tax Calculations and Interpretation of electricity bill, water supply bill and others bills	
December	Revision & Pre-Board Exams	
January	Pre- Board Exams	
February March	Revision & Annual Exams	

Syllabus For Unit Test

Unit-1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS
Unit -2 Algebra

Syllabus For Half Yearly exams

Unit-1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS
Unit -2 Algebra
Unit – 3 Mathematical and Logical Reasoning
Unit-4 Calculus
Unit-5 Probability
Unit -8 Straight line