

ARMY PUBLIC SCHOOL, BANGALORE
SPLIT UP SYLLABUS 2024-25

CLASS - 11
SUBJECT- MATHEMATICS

SL. NO.	MONTH & WORKING DAYS	CONTENT
1.	APRIL, 13 DAYS	<ul style="list-style-type: none">• Chapter 1 - SETS Sets and their representations, Types of sets, Subsets, Universal set, Venn diagrams, Union and Intersection of sets, Difference of sets, Complement of a sets• Chapter 2 – RELATIONS AND FUNCTIONS Ordered pairs, Cartesian products of sets
2.	JUNE, 16 DAYS	<ul style="list-style-type: none">• Chapter 2 – RELATIONS AND FUNCTIONS (Cont.) Relations – domain, co-domain and range Functions – domain, co-domain and range Types of real valued functions with their graphs, Algebra of functions• Chapter 3 – TRIGONOMETRIC FUNCTIONS Angles and their types, degree and radian measure, Trigonometric functions – signs, domain, range and their graphs, Compound angle formula and their simple applications
3.	JULY, 25 DAYS	<ul style="list-style-type: none">• Chapter 3 – TRIGONOMETRIC FUNCTIONS (Cont.) deducing identities (sum into product, product into sum), Multiple angle identities and their simple applications.

		<ul style="list-style-type: none"> • Chapter 4 – COMPLEX NUMBERS AND QUADRATIC EQUATIONS Complex number as a combination of real and imaginary terms, Algebraic properties of complex numbers, Argand plane and Quadratic equations
4.	AUG, 23 DAYS	<ul style="list-style-type: none"> • Chapter 5 – LINEAR INEQUALITIES Algebraic solutions of linear inequalities in one variable and their representation on the number line • Chapter 6 – PERMUTATIONS AND COMBINATIONS Fundamental principle of counting, Factorial, Permutations, Combinations and their simple applications
5.	SEPT, 21 DAYS	<ul style="list-style-type: none"> • Chapter 7 – BINOMIAL THEOREM Statement and proof of the Binomial theorem, Pascal’s triangle, simple applications • Chapter 8 – SEQUENCES AND SERIES Arithmetic mean, Geometric Progression – general term, sum of n terms, infinite G.P. and its sum, geometric mean, relation between A.M. and G.M.
6.	OCT, 15 DAYS	<ul style="list-style-type: none"> • Chapter 9 – STRAIGHT LINES Slope of a line, Angle between two lines, Various forms of a line, Distance between a point and a line. • Chapter 10 – CONIC SECTIONS Sections of a cone: circles, parabola, ellipse, hyperbola, Standard equations and their simple properties

7.	NOV, 21 DAYS	<ul style="list-style-type: none"> • Chapter 11 – INTRODUCTION TO THREE DIMENSIONAL GEOMETRY Coordinate axes and coordinate plane in 3D, coordinates of a point, Distance between two points • Chapter 12 – LIMITS AND DERIVATIVES Derivatives introduced as rate of change, intuitive idea of limit, Limits of different types of functions
8.	DEC, 17 DAYS	<ul style="list-style-type: none"> • Chapter 12 – LIMITS AND DERIVATIVES (Cont.) Relating derivative with tangent of the curve, algebra of derivatives, derivatives of polynomial and trigonometric functions. • Chapter 13 – STATISTICS Measures of dispersion, Range, Mean deviation, Standard deviation and variance of ungrouped/grouped data.
9.	JAN, 24 DAYS	<ul style="list-style-type: none"> • Chapter 14 – PROBABILITY Events, types of events, Axiomatic probability, Probability of an event
10.	FEB, 22 DAYS	<ul style="list-style-type: none"> • REVISION FOR ANNUAL EXAMINATION
11.	MARCH, 23 DAYS	