

ARMY PUBLIC SCHOOL, BANGALORE
SPLIT UP SYLLABUS 2023-24

CLASS - XI
SUBJECT- MATHEMATICS

SL.NO.	MONTH & WORKING DAYS	CONTENT
1.	JUNE, 21 Days	<ul style="list-style-type: none"><li data-bbox="920 437 1953 762">● Sets Sets and their representations, types of sets, universal set, Venn diagram, union of sets, intersection , difference of sets, Complement of a set. <li data-bbox="920 912 1953 1043">● Relations and Functions Ordered pairs, Cartesian product of sets, Relations, domain, range, co-domain. Types of Real valued function, algebra of functions. <li data-bbox="920 1104 1953 1262">● Trigonometric Functions Angles and their types, degree and circular measure. Graphs of trigonometric functions, compound angle formula, their simple applications

3.	AUG, 24 Days	<ul style="list-style-type: none"> ● Continuation of Linear Inequalities Algebraic solutions in one variable and their solutions on a number line. ● Permutations and Combinations Fundamental principle of counting, factorial, permutation, combinations and simple applications. ● Binomial Theorem Statement and proof of the binomial theorem, Pascal's triangle and simple applications. 		<p>Students will be able to solve one-step inequalities that involve addition, subtraction, multiplication and division.</p> <p>Students should be able to apply the fundamental principle of counting to find out the total number of outcomes in a problem.</p> <p>Identify binomial co-efficient given the formula for a combination.</p>	Activity 15		
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4.	SEPT, 22 Days	<ul style="list-style-type: none"> ● Sequences and Series Arithmetic mean, Geometric Progression, Infinite G.P, Relation Between A.M and G.M ● Straight Lines Slope of a line, Angle between two lines, various forms of a line, distance between a point and a line. 		<p>Understand the definitions of limits and convergence in the context of sequences and series of real numbers.</p> <p>Use straight line graphs in practical solutions.</p>			
5.	OCT, 16 Days	<ul style="list-style-type: none"> ● Conic Sections Sections of a Cone, Ellipse, Parabola, Hyperbola and Circle their standard equations and simple properties. ● Introduction to three dimensional geometry Co-ordinate axes, co-ordinate planes, 		<p>Analyse and write equation using properties.</p> <p>Analyse and write equation using properties.</p>	<p>Activity 21 Activity 22</p>		

6.	NOV, 21 Days	<ul style="list-style-type: none"> • Continuation of Introduction to three dimensional geometry Distance between two Points • Limits and Derivatives Derivative introduced as rate of change, limits of polynomials, rational, trigonometric, logarithmic and exponential functions, derivative as slope of tangent to a curve, Algebra of Derivatives. 		How to find limits numerically and graphically.	Activity 28		
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9.	DEC, 18 Days	<ul style="list-style-type: none"> • Statistics Measures of dispersion Range, Mean deviation, variance and standard deviation. 		Understand and choose the best measure of dispersion.			
10.	JAN, 23 Days	<ul style="list-style-type: none"> • Probability Events, Axiomatic Probability and Probability of an event. 		To use mathematical vocabulary to describe the probability of events happening.	Activity 32		

11.	FEB, 24 Days,	<ul style="list-style-type: none"> ● Pre-Board exams 		<ul style="list-style-type: none"> ● Continuous tests ● Doubt clearing classes ● MCQ & A-R will be answered. 	Individual Practicing		
12.	MARCH, 21 Days,	<ul style="list-style-type: none"> ● Board exams 					

BOOKS: NCERT TEXTBOOK, NCERT EXEMPLAR & LAB MANNUAL,