ARMY PUBLIC SCHOOL, MUMBAI (2019-2020)
STANDARD CURRICULUM

CLASS:XI SUB: MATHEMATICS

S. NO	MONTH	CHAPTER NAME	CORE VALUES / VALUES AND SKILLS	METHODOLOGY	LEARNING OUTCOMES
1.	June	Sets, relations and functions	• Self awareness • Confidence and motivation	• Discussion of sets and relation function in our lives	Students were able to: • state the difference between relation and function • Define sets and describe types of sets
2.	July	Trigonometric functions, principle of mathematical induction	• Team work • Courage	• Group discussion on real life use of trigonometry	• Solve trigonometric problems by using different formulae and identities • Find principle and general solution • Solve problems based on PMI
3.	August	Complex numbers, quadratic equations, linear inequalities	• Environmental awareness • Understanding	• Explanation on need of complex numbers	• Find conjugate,multiplicative inverse • Represent equation in polar form • Represent inequalities graphically
4.	September	Permutations and combinations binomial theorem	• Patriotism and nationalism • Loyalty, honesty and bravery	• Problem solving on permutation and combinations based on different situations	• State the difference between permutation and combination • Solve word problems based on both

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5.	October	Sequence and series ,straight line	• Discipline and diligence • Hard work and sincerity	• Explanation on difference between sequence and series and properties of straight lines	• State difference between sequence and series • Recall AP and explain GP and relation between them • Define different forms of general equation of strainght lines and formulae
6.	Novemb er	Conic sections, introduction to three dimensional geometry, limits and derivatives	• Diversity and togetherness • Unity and teamwork	• Explanation on deep understanding of different shapes of conic • Section with figures drawn	• Define 4cases of conic section i.e circle, parabola, ellipse, hyperbola • Explain concept of limit and solve problems based on that • Solve problems of derivatives using formulae
7.	Decemb er	Limits and derivatives (contd) mathematical reasoning	• Gender sensitivity • Respect	• Explanation cum discussion on limits use	• Solve problems using Leibnitz product rule and quotient rule
8.	January	Statistics, probability	• Perseverance • Patience and faith	• HOTS question solving on statistics and assignment on probability	• Find mean deviation about mean and median of ungrouped data, discrete data and continuous data