The Camford International School

ANNUAL LESSON PLAN 2025-2026

GRADE :10   **SUBJECT : MATHEMATICS**

MONTH	CHAPTER NO. AND NAME	DETAIL CONCEPTS TO BE COVERED	PRACTICALS
MARCH	**1. Real Numbers**	Introduction; The Fundamental Theorem of Arithmetic; Revisiting Irrational Numbers.	
	2. Polynomials	Introduction; Geometrical Meaning of the Zeros of a polynomial; Relationship between Zeros and Coefficients of a polynomials.	**ACTIVITY 1** To draw the graph of a quadratic polynomials
APRIL	**3. Pair of Linear Equations In Two Variables**	Introduction; Graphical method of solution of a Pair of Linear Equations; Algebraic Method of Solving a pair of linear equations – Substitution Method, Elimination Method.	**ACTIVITY 2** To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.
	4. Quadratic Equations	Introduction; Quadratic equations; Solution of a quadratic equation by Factorisation; Nature of Roots.	**ACTIVITY 3** To obtain the solution of a quadratic equation (example: $x^2 + 4x = 60$) by completing the square geometrically.
MAY	**5. Arithmetic Progression**	Introduction; Arithmetic Progressions; n^{th} term of an AP ; Sum of first n terms of an AP.	**ACTIVITY 4** To establish a formula for the sum of first n terms of an Arithmetic Progression.

JUNE	**6.Triangles**	Introduction; Similar Figures; Similarity of Triangles; Criteria for Similarity of Triangles.	**ACTIVITY 5** To draw a system of similar triangles, using Y shaped strips with nails.
	7. Co-Ordinate Geometry	Introduction; Distance Formula; Section Formula.	**ACTIVITY 6** To verify section formula by graphical method.
JULY	**8.Trigonometry**	Introduction; Trigonometric ratios; Trigonometric ratios of some specific angles; Trigonometric Identities.	
	9. Some Applications of Trigonometry	Height and Distances; Angle of elevation, Angle of Depression.	**ACTIVITY 7** To find the height of a building using a clinometer.
AUGUST	**10.Circles**	Introduction; Tangent to a circle; Number of Tangents from a Point on a Circle.	**ACTIVITY 8** To verify experimentally that the tangent at any point to a circle is perpendicular to the radius through that point.
	11. Areas Related to Circles	Introduction, Motivate the area of a circle; area of sectors and segments of a circle.	
SEPTEMBER	**12.Surface Area And Volume**		

		Introduction; Surface area of a combination of solids; Volume of a Combination of Solids.	
	13. Statistics	Introduction; Mean, Median and Mode of Grouped Data.	
	14. Probability	Probability – A Theoretical Approach	

Activity :https://ncert.nic.in/science-laboratory-manual.php?ln=en

AIL: To **find a picture of Minion by plotting and joining points with given coordinates** in a plane. (Learning Notebook: Class 9, 10: Maths Art Integrated Activity on Coordinate Geometry (Maths Art Integrated Activity) (learningnotebookyoutube.blogspot.com))