



# The Camford International School

## ANNUAL LESSON PLAN 2025-2026

GRADE : 9

SUBJECT: Mathematics (041)

MONTH	CHAPTER	TOPICS TO BE COVERED	PRACTICALS
APRIL	1. Real number system	Introduction; Irrational numbers; Real numbers and their decimal expansions; Operations on real numbers; Laws of Exponents for real numbers.	<b>ACTIVITY 1:</b> To obtain a square root spiral of natural numbers using graduated strips.
	2. Polynomials	Introduction, polynomials in one variable; zeroes of a polynomial.	
JUNE	2. Polynomials	Factorisation of polynomials, Algebraic Identities.	<b>ACTIVITY 2:</b> To verify the algebraic identity : $(a + b)^3 = a^3 + b^3 + 3a^2b + 3ab^2$
	3. Coordinate Geometry	Introduction; Cartesian system; plotting a point in the plane if its coordinates are given	<b>ACTIVITY 3:</b> To find the values of abscissa and ordinates of various points given in a cartesian plane.
	4. Linear equations in two variable	Introduction; Linear Equations; Solution of a Linear Equation; Graph of a Linear Equation in Two variables.	
	5. Introduction to Euclid's geometry	Introduction: Euclid's Definitions, Axioms, Postulates, Theorem.	
	6. Lines and Angles	Introduction; Basic terms and Definitions; Intersecting Lines and Non-intersecting Lines; Pairs of Angles; Lines parallel to the same Line.	
JULY	7. Triangles	Introduction; Congruence of triangles; Criteria for congruence of triangles; Some properties of a Triangle; Some more criteria for congruence of Triangles.	<b>ACTIVITY 4:</b> To verify exterior angle property of a triangle.

	<b>8. Quadrilaterals</b>	Introduction; Properties of a parallelogram; The Mid-point Theorem.	<b><u>ACTIVITY 5:</u></b> The sum of the angles of a quadrilateral is $360^\circ$ .
<b>AUGUST</b>	<b>9. Circles</b>	Introduction; Angle subtended by a chord at a point; Perpendicular from the centre to a chord; Equal chords and their distances from the centre; Angles subtended by an arc of a circle; Cyclic Quadrilaterals.	<b><u>ACTIVITY 6:</u></b> To verify that the angle subtended by an arc of a circle at the centre is double the angle subtended by it at any point on the remaining part of the circle.
<b>SEPTEMBER</b>	<b>11. Heron's Formula</b>	Area of a Triangle – by Heron's formula	
	<b>12. Surface Areas and Volumes</b>	Introduction; Surface area of a right circular cone; Surface area of a sphere; Volume of a right circular cone; Volume of a sphere.	<b><u>ACTIVITY: 7</u></b> To form a cone from a sector of a circle and to find the formula for its curved surface area. <b><u>ACTIVITY: 8</u></b> To obtain the formula for the surface area of a sphere.
<b>OCTOBER</b>	<b>13. Statistics</b>	Introduction; Graphical Representation of data. (Bar Graph, Histograms of uniform width, and of varying widths, Frequency polygons)	<b><u>ACTIVITY: 9</u></b> Draw histogram for classes of equal widths and varying widths.

