



The Camford International School

ANNUAL LESSON PLAN 2023-2024

GRADE: 9

SUBJECT : Mathematics (041)

| MONTH | CHAPTER | TOPICS TO BE COVERED | PRACTICALS | AIL |
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| APRIL | 1.Real number system | Introduction; Irrational numbers; Real numbers and their decimal expansions; Representing Real numbers on the number line; Operations on real numbers; Laws of Exponents for real numbers. | ACTIVITY 1: Construction of square root spiral | |
| JUNE | 2. Polynomials | Introduction, polynomials in one variable; zeroes of a polynomial. Factorisation of polynomials, Algebraic Identities | | |
| | 3.Linear equations in one variable | Introduction; Linear Equations; Solution of a Linear Equation; Graph of a Linear Equation in Two variables; Equations of Lines parallel to x-axis and y-axis | | |
| | 4.Coordinate Geometry | Introduction; Cartesian system; plotting a point in the plane if its coordinates are given | | |
| | 6. Lines and Angles | Introduction; Basic terms and Definitions; Intersecting Lines and Non-intersecting Lines; Pairs of Angles; | | |
| JULY | 6. Lines and Angles | Parallel Lines and a Transversal; Lines parallel to the same Line; Angle sum property | | |

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| | | of a Triangle | | |
| | 7. Triangles | Introduction; Congruence of triangles; Criteria for congruence of triangles Some properties of a Triangle; Some more criteria for congruence of triangles; (ASA Congruence without proof) | <u>ACTIVITY 2:</u> Angle sum property of a triangle <u>ACTIVITY 3 :</u> Exterior angle property of a triangle | |
| | 8.Quadrilaterals | Introduction; Angle sum property of a quadrilateral; Types of quadrilaterals; properties of a parallelogram; The Mid-point Theorem. | | |
| AUGUST | 10. Circles | Introduction; Circles and its Related terms: A review; 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 | <u>ACTIVITY 4 :</u> Sum of opposite angles of a cyclic quadrilateral are supplementary | |
| | 11.Construction | Introduction; Basic constructions; Some constructions of triangles | | |
| SEPTEMBER | 12. Heron's formula | Heron's formula; Application of Heron's formula to find area of triangles. | | |
| | 13. Surface area and volume | Introduction; Surface area of a cube and a cuboid; Surface area of a right circular cylinder and cone; Surface area of a sphere Volume of a cube and a cuboid; volume of a right circular cylinder and cone; Volume of a sphere. Volume of a cube and a cuboid; volume of a right circular cylinder and cone; Volume of a sphere | <u>SUBJECT ENRICHMENT ACTIVITY:</u> <ul style="list-style-type: none"> • Seminar on surface area and volume PPT presentation | 4.1.2.1.2 Study of manmade forms or objects like household items, buildings or as desired by students. (Using Bamboo |

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| | | | | stick / Cardboard) |
| OCTOBER | 14. Statistics | Introduction; Collection of data; Presentation of data- Tabular form | <u>ACTIVITY 5:</u> Drawing histogram by collecting data from the population | 4.5.3.2 Chart tabulation of music, Costume, Religion, Language association etc. |
| | 15. Probability | Introduction; Probability-an experimental approach | | |