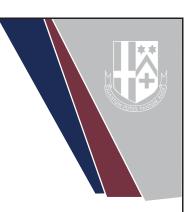# Programme of Study 2024- 2025

Subject: Mathematics

Year 10

Autumn 1

Unit 1a: Algebra 1: Brackets, Equations, Simple Factorisation, Indices
Unit 2a: Number 1: Fractions, BIDMAS, Rounding, Estimation, Bounds
Unit 1b: Algebra: Algebraic Fractions, Inequalities, Simplifying Fractions
Unit 3a: Shape and Space 1: Angles and Lines, Angles in Polygons, Properties of Shapes, Similarity

Autumn 2

Unit 1c: Algebra 2: Triple Brackets, Factorising Quadratics, Solving by Factorising, Quadratic Problems
Unit 4a: Data Handling 1: Types of Data, Graphs and Charts, Comparisons, Frequency Tables
Unit 1d: Algebra 4: Rearranging Formulae
Unit 2b: Number 2: Percentages, Standard Form
WINTER BREAK

Spring 1

Unit 1e: Algebra 5: Completing the Square, Quadratic Formula
Unit 5: Sets 1: Set Notation, Venn Diagrams
Unit 2c: Number 3: Prime Factors, HCF/LCM, Ratio
Unit 3b: Shape and Space 2: Pythagoras' Theorem, Circle Theorems, Trigonometry - Right-Angled

Spring 2

Unit 2d: Number: Rational/ Irrational Numbers, Surds
Unit 6a: Graphs 3: Distance-Time Graphs, Speed-Time Graphs
Unit 4b: Handling Data 2: Experimental/Theoretical Probability, Sample Space
Unit 6b: Graphs: Graphing Inequalities, Parallel and Perpendicular Lines, Midpoints, Distance Between 2 Points
Unit 6c: Graphs: Plotting Quadratics and solving graphically

Summer 1

Unit 4c: Handling Data 3: Quartiles, Cumulative Frequency
Unit 3c: Shape and Space: Translation, Reflection, Rotation, Enlargement, Combined Transformations
Unit 7: Right-Angled 3D Trigonometry

Summer 2

Unit 8: Loci and Constructions
Unit 3d: Shape and Space: Circular Area, Volume and Surface Area, Similar Shapes.
Unit 2d: Number 4: Compound measures and converting units