

Programme of Study 2024- 2025



Subject: Mathematics

Year 11C

Autumn 1

Number: Index Laws, Fractional and Negative Indices
Algebra: Algebraic Fractions
Sequences: Arithmetic Sequences, Geometric Sequences, Quadratic Sequences
Shape and Space: Trigonometric Graphs, Sine and Cosine Rule, Area of a Triangle, Bearings, 2D problems involving circle theorems, 3D problems
Handling Data: Tree Diagrams, Conditional Probability, Independent Events, Combined events

Autumn 2

Algebra: Functions (Inverse and Composite), Domain and Range
Graphs: Cubic and Reciprocal Graphs
Number: Direct and Inverse Proportion including Algebra
Sets: Set Notation and Venn Diagrams
Shape and Space: Circle Theorems
Algebra: Quadratic and Linear Simultaneous Equations
Algebra: Plotting/Graphical Solutions to Quadratic Equations, Problems using Quadratics, Quadratic Inequalities, Solving Quadratics

Spring 1

Graphs: Tangents, Graph Transformations
Data Handling: Histograms
Shape and Space: Vectors
Number: Recurring decimals, Counting, Accuracy, Powers and Surds:
Rational numbers, reciprocals, terminating and recurring decimals, Estimating powers and roots

Spring 2

Algebra: Algebraic Proof
Graphs: Differentiation, Stationary Points, Kinematics
Distance-time graphs, Velocity-time graphs
Rates of change, Equation of a circle
Other graphs, Transformations of the graph

Summer 1

Algebra: Algebraic Fractions and Functions: Algebraic fractions, Changing the subject of a formula, Composite functions and Inverse Functions Recap, Iteration

Summer 2

GCSE Exams