

Maths Curriculum Map

Year Group	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
7	Calculations and Accuracy Area and Perimeter Fractions, Decimals and Percentages	Integers, Powers and Roots Simplifying and Substituting Ratio and Proportion Lines, Angles and Shapes	Lines, Angles and Shapes Fractions, Decimals and Percentages Integers, Powers and Roots	Forming and Solving Equations Calculations and Accuracy Ratio and Proportion Area and Perimeter	Fractions, Decimals and Percentages Integers, Powers and Roots Sequences, functions and graphs Calculations and Accuracy	Lines, Angles and Shapes Simplifying and Substituting Volume and Surface Area Ratio and Proportion
8	Interpretation of data sources Area and Perimeter Fractions, Decimals and Percentages Integers, Powers and Roots	Integers, Powers and Roots Simplifying and Substituting Ratio and Proportion Lines, Angles and Shapes Fractions, Decimals and Percentages	Fractions, Decimals and Percentages Integers, Powers and Roots Forming and Solving Equations Calculations and Accuracy	Ratio and Proportion Area and Perimeter Fractions, Decimals and Percentages Integers, Powers and Roots	Sequences, functions and graphs Calculations and Accuracy Pythagoras and Bearings	Simplifying and Substituting Volume and Surface Area Ratio and Proportion Interpretation of data sources
9	Interpretation of data sources Area and Perimeter Fractions, Decimals and Percentages Pythagoras / Trigonometry	Simplifying and Substituting Ratio and Proportion Lines, Angles and Shapes Fractions, Decimals and Percentages	Fractions, Decimals and Percentages Integers, Powers and Roots Forming and Solving Equations Construction and Loci	Ratio and Proportion Area and Perimeter Fractions, Decimals and Percentages Integers, Powers and Roots	Sequences, functions and graphs Calculations and Accuracy Pythagoras and Bearings	Simplifying and Substituting Volume and Surface Area Ratio and Proportion Probability Transformations
10	Interpretation of data sources Forming and Solving Equations Pythagoras / Trigonometry	Simplifying and Substituting Ratio and Proportion Statistical calculations Fractions, Decimals and Percentages	Fractions, Decimals and Percentages Sequences, functions and Graphs Forming and Solving Equations	Construction and Loci Transformations Fractions, Decimals and Percentages Integers, Powers and Roots	Sequences, functions and graphs Calculations and Accuracy Ratio and Proportion Simplifying and Substituting	Simplifying and Substituting Volume and Surface Area Ratio and Proportion Probability Work Experience / Mocks
11	Circle Theorems Vectors Interpretation of data sources Compound Measures Probability	Forming and Solving Sequences, functions and Graphs Bespoke mock preparation	Pythagoras and Trigonometry Integers, Powers and Roots Sequences, functions and graphs Forming and Solving Equations	Ratio and Proportion Problem Solving Exam Technique Revision		

KS5 Curriculum Map

Year Group	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
12 Core T1	Algebraic Expressions Quadratics Equations and Inequalities Graphs and Transformations	Further Algebra and Binomial expansion	Trigonometry Radians	Trigonometry Radians Algebraic methods	Numerical Methods Sequences and Series	Sequences and Series Binomial expansion Recap Yr12 / Summer enrichment
12 Core T2	Straight Line Graphs & Circles Vectors 2D & Vectors	Vectors 2D & Vectors Differentiation	Differentiation Integration	Integration Exponentials and Logarithms	Exponentials and Logarithms	Functions and graphs Recap Yr12 / Summer enrichment
Year 12 Mathematical Studies	Introduction to spreadsheets, Types of Data and Collecting Data Numerical Calculations and Percentages Fermi Estimation	Fermi Estimation Representing data numerically and diagrammatically Interest Rates Equation of a straight line	Equation of a straight line Collecting and sampling data Critical Path Analysis	Critical Path Analysis Solution to financial problems Perimeter, Circumference and Area	Perimeter, Circumference and Area Pythagoras and Similarity Analyse Critically	Analyse Critically Surface area and Similarity Recap Yr12 / Summer enrichment
Year 12 Core Pure	Complex Numbers Matrices	Complex Numbers Matrices Series Algebra and Functions Proof	Series, Algebra and Functions & Proof Vectors	Vectors Volumes of Revolutions	Volumes of Revolutions Yr 12 Past Paper Core Pure 1 Practice Complex Number & Series	Complex Number & Series Recap Yr12 / Summer enrichment
Year 12 Decision	Algorithms and Graph Theory Algorithms on Graphs and Packing Algorithms	Algorithms on Graphs and Packing Algorithms Route Inspection	Route Inspection Travelling Salesperson	Linear Programming Simplex Algorithm	Simplex Algorithm Critical Path Analysis	Flows in Networks 1 Recap Yr12 / Summer enrichment
13 Core	Trigonometric Functions Trigonometry and modelling	Parametric Equations Differentiation	Differentiation Integration	Integration	Revision/Exams	
13 Statistics	Data Collection Data Processing, Presentation and Interpretation	Probability Statistical Distribution Hypothesis testing	Hypothesis testing Conditional Probability	Conditional Probability Normal Distribution	Revision/Exams	
13 Mechanics	Kinematics 1 Forces and Motion	Forces and Motion Variable Acceleration	Moments Friction Projectiles	Application of Forces Further Kinematics	Further Kinematics Revision/Exams	



Year 13 Mathematical Studies	Project Work - Personal Finance or Analysis of Data Representing data diagrammatically and numerically Graphical Representation	Graphical Representation Critical path and Risk Analysis – Expectation Repayments and Credit Taxation and VAT	Taxation and VAT Limits of accuracy Critical path and Risk Analysis - Cost benefit analysis Taxation: Income tax	Taxation: Income tax and National Insurance Analyse Critically	Revision/Exams	
Year 13 Core Pure	Integration Differentiation	Methods in Calculus Complex numbers & Series	Volumes of Revolutions Methods in Differential Equations Hyperbolic Functions	Methods in Differential Equations Modelling with differential equations Hyperbolic Functions Polar Coordinates	Modelling with differential equations Polar Coordinates Revision/Exams	
Year 13 Decision	Transportation Problems Allocation (Assignment Problems) Flows in Network 2	Allocation (Assignment Problems) Flows in Network 2 Game Theory	Game Theory Dynamic Programming/Decision Analysis	Dynamic Programming/Decision Analysis Recurrence Relations	Recurrence Relations Revision/Exams	