Maths
Curriculum Overview

Year 7 Maths Curriculum Overview

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	Place Value and 4 Operations	Algebraic Manipulation	Fractions Decimals	Solving Equations	Sequences Co-ordinates & Graphs	Angles Bearings
	Factors, Multiples & Primes	Units of Measure Perimeter Area	Presentation of data Averages	Percentages	Ratio & Proportion	Polygons & Circles Symmetry Congruency Transformations

Year 8 Maths Curriculum Overview

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 8	Fractions Decimals Percentages	Factors, Multiples, Primes Indices Standard Form	Probability	Ratio & Proportion	Polygons & Angles	Time & Speed
	Rounding & Estimating Data Presentation Averages	Algebraic Manipulation	Solving Equations Solving Inequalities	Perimeter Area Volume	Sequences Graphs	Constructions Similar Shapes Enlargement

Year 9 Maths Curriculum Overview

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 9	Fractions Decimals Percentages	Factors, Multiples and Primes Indices Standard Form	Probability	Perimeter Area Volume Pythagoras	Angles & Polygons Bearings	Distance Time Graphs Real-Life Graphs
	Rounding & Estimating Data Presentation Averages	Algebraic Manipulation	Solving Equations Solving Inequalities	Ratio & Proportion	Sequences Graphs	Loci Similar Shapes Enlargement

Year 10 Maths Curriculum Overview

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	• Primes, Factors and multiples • Fractions and Decimals • Algebraic Manipulation	• Accuracy and Rounding • Indices and Standard Form • Mensuration	• Geometric constructions and calculations • Ratio and Proportion	• Percentages • Solving of Equations	• Bivariate Data • Exact Calculations • Compound Units	• Collecting, Organising, Presenting and Analysing Data • 2D and 3D Representations

Year 11 Maths Curriculum Overview

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 11	- Geometric Review and Circle Theorems - Probability and Set Theory	- Graphs of Equations & Functions - Iterative Methods	- Transformations - Sequences	- Similar Shapes - Vectors	**Content and skills revision**	

Sixth Form Maths Curriculum Overview

Maths A level

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	• Quadratic Functions • Equations & inequalities • Co-ordinate geometry • Kinematics • Polynomials • Vectors		• Forces & Newton's laws • Differentiation • Integration • Variable Acceleration		• Trigonometry • Algebra review 2 • Kinematics • Differentiation	
	• Surds & Indices • Data collection, processing, presentation & interpretation • Probability • Trigonometry • The Binomial expansion • The Binomial distribution		• Statistical hypothesis testing using the Binomial distribution • Graphs & transformations • Exponentials & logarithms • Problem solving		• Sequences & series • Algebra review 1 • Functions • Trigonometric functions	
Year 13	• Sine & cosine rules review • Proof • Further differentiation • Force & motion • Integration • Moments of forces		• Parametric equations • Projectiles • A model for friction			
	• Working with data review • Probability • Further Algebra • Trigonometric identities • Co-ordinate geometry review • Statistical distributions		• Statistical hypothesis testing • Differential equations • Vectors • Numerical methods			

Further Maths A level

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	• Matrices & transformations • Sequences & series • Matrices & their inverses • Vectors & 3D space • Algorithms • Modelling with graphs & networks • Network Algorithms • Further Network problems • Linear Programming • Simplex method • Reformulating networks as LP		• Discrete Random Variables • Discrete probability distributions • Bivariate data – correlation coefficients • Bivariate data – regression lines • Chi-squared tests • Introduction to complex numbers • Roots of polynomials • Complex numbers & geometry		Post AS Exams • Kinematics • Forces & motion • A model for friction • Moments of forces • Work, energy & power • Impulse & momentum • Centre of mass • Dimensional analysis	
	Term 1	**Term 2**	**Term 3**	**Term 4**	**Term 5**	**Term 6**
Year 13	• Vectors 1 • Review: Matrices • Matrices • Revision of Statistics minor • Revision of Mechanics minor • Series & Induction • Polar co-ordinates • Review: Complex numbers • Revision of MWA		• Further calculus • Maclaurin series • Hyperbolic functions • Applications of Integration • Vectors 2 • Review: Roots of polynomials • First order differential equations • Complex numbers • Second order differential equations		Revision and exam preparation	

Level 3 Certificate in Mathematical Studies (Core Maths : One year course)

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	• Maths for personal finance • Assumed subject content		• Estimation • Critical analysis of given data and models		Exam preparation	
	• Analysis of data • The Normal distribution		• Probabilities and estimation • Correlation and regression			