

Subject: Maths

Curriculum intent:

As a knowledge-based subject, we believe that knowledge is the key to our students having a deeper understanding. Our curriculum allows our students to build on what they already know and develop the skills required to understand the application of maths in the real world.

Our curriculum is sequenced carefully to ensure a balanced delivery of content across the five strands (geometry, ratio and proportion, algebra, number, and statistics) and to ensure it is delivered to ensure progress over time. Our curriculum follows blocked schemes of work, which allow for depth and breadth of learning within each strand of mathematics. Each block of learning includes opportunities to develop fluency skills; construct chains of reasoning using relevant knowledge, alongside relevant terminology; and solve increasingly complex problems in a systematic and coherent way.

Key Stage 4 students will follow foundation or higher pathway. This scheme of work allows students to work at the level appropriate to them. Students continue to study the full range of the mathematical curriculum strands, in line with Edexcel GCSE specification. Following on from KS3, they continue to have opportunities to solve problems and explain their reasoning with an increase in GCSE-Style exam questions.

KS3

	Autumn Term	Spring Term	Summer Term
Year 7	Number Sense and Calculations Expressions and Equations, Measures, 2D Shapes, Perimeter and Area.	Perimeter and Area, Coordinates, Factors, Multiples and Primes Fractions, Brackets, Angles	Angles, Handling Data and Statistical Diagrams, Proportion Fractions, Decimals and Percentages, Probability
Year 8	Percentages, Money, Indices, Equations Sequences, Ratio, Rounding, Coordinates	Rea, Circles, Standard Form Venn Diagrams, 3D Shapes, Surface Area and Volume, Linear Graphs	Transformations, Angles, Statistical Diagrams Inequalities, Brackets, Algebraic Fractions, Recurring Decimals
Year 9	Fractions and Percentages, Probability, Standard Form, Inequalities, Quadratic Equations	Pythagoras, Ratio and Proportion, Linear Graphs	Angles and Bearings, Transformations, Similarity and Congruence

Formulae, Constructions, Circles, Rounding, 3D shapes	Compound Measures, Motion Time Graphs, Quadratic Graphs	Handling Data and Statistical Diagrams, Vectors
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KS4 Maths: Edexcel GCSE Mathematics 1MA1

	Autumn Term	Spring Term	Summer Term
Year 10	Foundation & Higher: Percentages, Surface Area and Volume, Simultaneous Equations Formulae, Trigonometry, Constructions, Linear Graphs	Foundation & Higher: Real Life Graphs, Set Notations, Tree Diagrams Compound Measures, Ratio, Graphs, Sequences	Foundation: Handling Data, Proportion, Transformations, Rounding Indices, Brackets, Handling Data and Statistical Diagrams. Higher: Handling Data, Proportion, Transformation, Rounding, Indices Recurring Decimals, Brackets, Handling Data and Statistical Diagrams
	Foundation: Factors, Multiples and Primes, Fractions, Expressions, Equations, Angles Compound Measures, Ratio and Proportion, Standard Form, Sequences, Linear Graphs	Foundation: Probability, Inequalities, Vectors, Percentages Compound Measures, Ratio and Proportion, Standard Form, Sequences, Linear Graphs	Foundation & Higher: Revision and exam preparation
Higher: Surds, Algebraic Fractions, Equations Pythagoras Theorem and Trigonometry, Circle Geometry, Statistical Diagrams	Higher: Probability, Inequalities, Functions, Transformations Iteration, Algebraic Proofs, Similarity, Geometric, Graphs		