

The Maths Curriculum

Maths curriculum vision			
<p><i>Our carefully constructed curriculum ensures that students are given a strong foundational knowledge in Maths so that they can excel and become confident problem-solvers. In Key Stage 3, students will either study the core curriculum or the Beta curriculum. The Beta curriculum is crafted to ensure that students who have significant gaps in their Primary school numeracy knowledge are well-supported through both a tailored curriculum and small group intervention. This is typically aimed at around 15-20 students in each year group. The core curriculum is highly aspirational – it is carefully sequenced so that key skills are practised regularly and new learning builds on prior learning. By the end of students’ 7-year journey, they are able to understand mathematics and mathematical processes in a way that promotes confidence, fosters enjoyment and provides a strong foundation for progress to further study. The Maths experience ensures that pupils are well equipped with the crucial skills and knowledge that are essential for everyday life and a wide range of careers.</i></p>			
Key stage 3 – Units of Study: Core Curriculum			
Term	Year 7	Year 8	Year 9
1	Unit 01: Sequences Unit 02: Rounding, Estimation, Types of Number, Negatives, Decimals	Unit 01: Ratio Unit 02: Number Recap & Standard Form	Unit 01: Number Unit 02: Algebra
2	Unit 03: Data Representation Unit 04: Indices, Prime Factorisation, HCF & LCM	Unit 03: Area Unit 04: Probability	Unit 03: Graphs & Charts Unit 04: FDP
3	Unit 05: Expressions Spiral Assessment 1	Spiral Assessment 1 Unit 05: Expressions & Equations	Spiral Assessment 1 Unit 05: Equations & Sequences
4	Unit 06: Fractions Unit 07: Equations & Formulae	Unit 06: Angles Unit 07: Straight Line Graphs	Unit 06: Angles Unit 07: Averages & Range
5	Unit 08: Perimeter Unit 09: Percentages & FDP Conversions	Unit 08: Fractions, Decimals, Percentages Unit 09: Pythagoras	Unit 08: Perimeter, Area, Volume
6	Unit 10: Averages Spiral Assessment 2	Year 7 & 8 Recap Spiral Assessment 2	Unit 09: Ratio & Proportion Spiral Assessment 2
Key stage 3 – Units of Study: Beta Curriculum			
Term	Year 7	Year 8	Year 9
1	Unit 01: Number - Place Value	Unit 01: Number	Unit 01: Number Unit 02: Fractions
2	Unit 02: Fractions	Unit 02: Fractions	Unit 03a: Algebra - Expressions Unit 03b: Algebra - Expressions
3	Unit 03: Algebra Spiral Assessment 1	Spiral Assessment 1 Unit 03: Algebra	Spiral Assessment 1 Unit 04: Shape Properties
4	Unit 04: Shape Properties	Unit 04: Shape Properties	Unit 05: Area & Perimeter Unit 06a: Data
5	Unit 05: Perimeter & Area	Unit 05: Perimeter & Area	Unit 06b: Data Unit 07: Equations
6	Unit 06: Data Spiral Assessment 2	Unit 06: Data Spiral Assessment 2	Unit 08: Ratio Spiral Assessment 2
Key stage 4 – Units of study: Year 10 Pearson Edexcel GCSE (9-1) in Mathematics (1MA1)			
Term	Year 10 Core Curriculum	Year 10 Beta Curriculum	
1	Unit 01: Straight Line Graphs Unit 02: Pythagoras & Trigonometry	Unit 01: Number Unit 02: Fractions, Decimals, Percentages	
2	Unit 03: Probability Unit 04: Multiplicative Reasoning	Unit 03a: Algebra - Expressions Unit 03b: Algebra - Expressions	
3	Trial exams Unit 05: Quadratics	Trial exams Unit 04: Shape	
4	Unit 06: Circles into 3D Unit 07: Standard Form & Surds	Unit 05: Transformations Unit 06: Averages	
5	Unit 08: Angles: Circle Theorems & Parallel Lines Unit 09: Functions & Graphs	Unit 07: Probability Unit 08: Equations	
6	Revision Trial exams	Unit 09: Ratio & Proportion Trial exams	
Key stage 4 – Units of study: Year 11 Pearson Edexcel GCSE (9-1) in Mathematics (1MA1)			
<p><i>The maths curriculum in year 11 covers topics in Number, Algebra, Ratio & Proportion, Shape & Measure and Statistics & Probability.</i></p>			

The curriculum is bespoke to the groups needs and sequencing of lessons is defined by the individual class teacher to suit the students' needs.

Key stage 5 – Units of study

Pearson Edexcel Level 3 Advanced GCE in Mathematics (9MA0)

<i>Term</i>	<i>Year 12</i>	<i>Year 13</i>
1	Algebraic Expressions Straight Line Graphs Differentiation Quadratics	Trigonometry and Modelling Modulus Functions Algebraic Methods Binomial Expansions
2	Integration Equations and Inequalities Graphs and Transformations Trigonometric Ratios	Differentiation Parametric Equations Sequences and Series Numerical Methods
3	Trigonometric identities and Equations Circles Algebraic Methods Logarithms and Exponentials	Integration Moments Projectiles Friction and Forces
4	Probability Hypothesis Testing Constant Acceleration Forces and Motion	Normal Distribution Probability Kinematics
5	Standard Deviation Representing Data Variable Acceleration	
6	Trial Exams Radians Vectors	