

The Maths Curriculum

Maths curriculum vision

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.

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 Unit 06: Fractions	Unit 05: Expressions & Equations Spiral Assessment 1	Unit 05: Equations & Sequences Spiral Assessment 1
4	Spiral Assessment 1 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 02: Number - Addition & Subtraction	Unit 01: Number – Place Value Unit 02: Number – Addition, Subtraction, Multiplication & Division	Unit 01: Number
2	Unit 03: Statistics Unit 04: Number - Multiplication & Division Unit 05: Measurement & Perimeter	Unit 03: Number - Fractions Unit 04: Geometry – Position & Direction	Unit 02: Algebra - Expressions
3	Unit 06: Number - Multiplication & Division Unit 07: Number - Fractions	Unit 05: Number – Decimals Unit 06: Number – Percentages Unit 07: Algebra	Unit 03: Data
4	Unit 07: Number – Fractions Unit 08: Number – Decimals & Percentages	Unit 08: Measurement – Converting Units Unit 09: Measurement – Perimeter, & Area Unit 10: Number - Ratio	Unit 04: Shape
5	Unit 09: Number - Decimals Unit 10: Geometry – Properties of Shape	Unit 11: Statistics Unit 12: Geometry – Properties of Shape	Unit 05: Algebra - Equations
6	Unit 11: Geometry – Position & Direction Unit 12: Measurement – Converting Units	Year 7 & 8 Recap Spiral Assessment	Unit 06: Ratio & Proportion

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: Ratio & Proportion	Unit 01: Number
2	Unit 03: Pythagoras & Trigonometry Unit 04: Probability	Unit 02: Algebra - Expressions
3	Trial exams Unit 05: Multiplicative Reasoning	Trial exams Unit 03: Data

4	Unit 06: Quadratics Unit 07: Perimeter, Area, Volume 2	Unit 04: Shape
5	Unit 08: Standard Form & Surds Unit 09: Circle Theorems	Unit 05: Algebra - Equations
6	Revision Trial exams	Unit 06: Ratio & Proportion Trial exams

**Key stage 4 – Units of study: Year 11
Pearson Edexcel GCSE (9-1) in Mathematics (1MA1)**

The maths curriculum in year 11 covers topics in Number, Algebra, Ratio & Proportion, Shape & Measure and Statistics & Probability. 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)**

Term	Year 12	Year 13
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	