

## The Maths Curriculum

<b>Maths curriculum vision</b>				
<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>				
<b>Key stage 3 – Units of Study: Core Curriculum</b>				
Term	Year 7	Year 8	Year 9 Higher	Year 9 Foundation
1	Unit 01: Sequences Unit 02: Rounding, Estimation, Types of Number, Negatives, Decimals Unit 03: Using a Calculator	Unit 01: Ratio Unit 02: Number Recap & Standard Form Unit 03: Area	Unit 01: Number Unit 02: Algebra-Expressions Unit 03: Data Representation	Unit 01: Number - Indices, HCF and LCM Unit 02: Algebra: Expressions Unit 03: Averages and Range
2	Unit 04: Data Representation Unit 05: Indices, Prime Factorisation, HCF & LCM	Unit 04: Probability Spiral Assessment 1	Unit 04: Fractions, Decimals and Percentages Unit 05: Solving Equations and Rearranging	Unit 04: Number Unit 05: Area and Perimeter
3	Spiral Assessment 1 Unit 06: Expressions	Unit 05: Expressions & Equations	Unit 06: Angles in Polygons and Parallel Lines	Unit 06: Angles on Parallel Lines
4	Unit 07: Fractions Unit 08: Equations & Formulae	Unit 06: Angles Unit 07: Straight Line Graphs	Unit 07: Averages and Range Unit 08: Perimeter, Area and Volume	Unit 07: Solving Equations and rearranging Unit 08: FDP
5	Spiral Assessment 2 Unit 09: Perimeter	Unit 08: Pythagoras Spiral Assessment 2	Unit 09: Ratio and Proportion	Unit 09: Ratio
6	Unit 10 – Fractions, Decimals and Percentages Unit 11: Averages	Unit 09: FDP Unit 10: Transformations	Unit 10: Sequences Unit 11: Transformations	Unit 10: Displaying data Unit 11: Sequences
<b>Key stage 3 – Units of Study: Beta Curriculum</b>				
Term	Year 7	Year 8	Year 9	
1	Unit 01: Sequences Unit 02: Place Value Unit 03: Data Representation	Unit 01: Ratio Unit 02: Number	Unit 01: Number Unit 02: Simplifying and substitution Unit 03: Averages and range	
2	Unit 03: Data Representation Unit 04: Number Unit 05: Expressions	Unit 03: Area and Perimeter Spiral Assessment 1	Unit 04: Fractions Unit 05: 2-D Shapes (Area and Perimeter)	
3	Spiral Assessment 1 Unit 06: Fractions	Unit 04: Fractions Unit 05: Expressions	Unit 06: Expanding and factorising	
4	Unit 07: Equations	Unit 06: Angles	Unit 07: Angles Unit 08: Equations	
5	Unit 08: Perimeter Spiral Assessment 2	Unit 07: Equations Spiral Assessment 2	Unit 09: Ratio	
6	Unit 09: FDP Unit 10: Averages	Unit 08 - FDP Unit 09 - Transformations	Unit 10: Data representation Unit 11: Sequences	
<b>Key stage 4 – Units of study: Year 10 Pearson Edexcel GCSE (9-1) in Mathematics (1MA1)</b>				
Term	Year 10 Higher Curriculum	Year 10 Foundation Curriculum	Year 10 Beta Curriculum	
1	Unit 01: Inequalities Unit 02: Pythagoras & Trigonometry Unit 03: Probability	Unit 01: Inequalities Unit 02: Straight line graphs Unit 03: Probability	Unit 01: Inequalities Unit 02: Simplifying and Substitute Unit 03: Probability	
2	Unit 04: Straight line graphs Unit 05: Multiplicative Reasoning and Compound measures	Unit 04: Pythagoras & Trigonometry Unit 05: Multiplicative Reasoning and Compound measures	Unit 04: 3D shapes Unit 05: Number	
3	Unit 06: Circles in 3D	Unit 06: 3D shapes	Unit 06: Transformations	

4	Unit 07: Quadratics Unit 08: Standard Form and Surds	Unit 07: Quadratics Unit 08: Standard form, fractions and indices	Unit 07: Expand and factorise Unit 08: FDP
5	Unit 09: Functions and Graphs Unit 10: Bearings and circle theorems	Unit 09: Angles in polygons Unit 10: Transformations	Unit 09: Equations Unit 10: Averages
6	Trial Exams, Preparation and Feedback	Trial Exams, Preparation and Feedback	Trial Exams, Preparation and Feedback Unit 11: Ratio and Proportion

**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 Quadratics Equations and Inequalities Trigonometric Ratios, Identities and Equations	Trigonometry and Modelling Functions and Graphs Sequences and Series Trigonometric Functions
2	Graphs and Transformations Straight Line Graphs Circles Algebraic Methods Binomial Expansion Vectors	Differentiation Parametric Equations Binomial Expansions Moments
3	Differentiation Integration Logarithms and Exponentials	Differentiation Integration Projectiles Friction and Forces Applications of Forces Further Kinematics
4	Data Collection Measures of Central Tendency and Spread Representing Data Mechanical Modelling Constant Acceleration Forces and Motion	Numerical Methods Vectors Conditional Probability Regression, Correlation and Hypothesis Testing
5	Correlation Probability Binomial Distribution Hypothesis Testing Forces and Motion Variable Acceleration	Normal Distribution Revision
6	Trial Exams Radians Algebraic Methods	

**Supporting your child with their learning?**

The following websites will support additional learning to your child.

