KS4 Curriculum Overview - Mathematics - Year 10

Your child will learn about number, algebra, geometry, ratio and proportion, statistics and probability over the course of the curriculum.

Term	Foundation	Crossover	Higher
Autumn 1	• Decimals • Percentages • Prime factors • Perimeter and area	• Decimals • Percentages • Prime factors • Perimeter and area • Volume • Brackets • Substitution	• Decimals • Percentages • Prime factors • Perimeter and area • Algebra
Autumn 2	• 3D forms • Surface area • Algebra • Brackets • Substitution • Ratio and proportion	• Equations • Charts • Averages • Ratio and proportion	• Ratio and proportion • Collecting data • Representing data • Equations • Inequalities
Spring 1	• Tables • Charts • Averages • Equations • Sequences	• Sequences • Straight line graphs • Inequalities • Angles • Indices	• Volume • Similarity and congruence • Pythagoras
Spring 2	• Straight line graphs • Inequalities • Indices • Standard form	• Standard form • Real life graphs • Probability	• Trigonometry • Linear graphs • Real life graphs
Summer 1	• Angles • Shapes and symmetry • Real life graphs • Scatter graphs	• Scatter graphs • Pie charts • Pythagoras • Similarity • Trigonometry • Vectors	• Linear simultaneous equations • Sequences • Angles • Indices • Standard form • Surds
Summer 2	• Pie charts • Volume • Probability	• Transformations • Quadratics	• Direct and inverse proportion • Cumulative frequency and histograms • Vectors

Through the study of mathematics your child will be expected to develop the following knowledge, skills and understanding:

Procedural Fluency	Students are drilled to recall facts and processes quickly.
Conceptual Understanding	Students make mathematical connections instead of over-reliance on procedures.
Critical Thinking	Students are encouraged to check their answers and consider efficiency.

Parents can support their child by encouraging them to use corbettmath.com/contents where there are videos and worksheets are available.

KS4 Curriculum Overview - Mathematics - Year 11

Your child will learn about number, algebra, geometry, ratio and proportion, statistics and probability over the course of the curriculum.

Term	Foundation	Crossover	Higher
Autumn 1	• Pythagoras • Similarity • Trigonometry	• Harder graphs • Simultaneous Equations • Constructions and loci	• Quadratics • Cubic graphs • Reciprocal graphs
Autumn 2	• Quadratics • Vectors • Transformations	Following the mock exam, students will follow a pathway to higher or foundation. Topics will be bespoke to the teaching groups. For further information, please contact the class teacher.	• Probability • Scatter graphs • Transformations • Constructions and loci
Spring 1	• Constructions and loci • Plans and elevations • Multiplicative reasoning		• Functions • Trig graphs • Further Trigonometry
Spring 2	• Harder graphs • Simultaneous graphs		• Circle theorems • Circle geometry • Algebraic fractions • Proof
Summer 1	• Revision for exam		• Revision for exam
Summer 2	GCSE Public Examinations	GCSE Public Examinations	GCSE Public Examinations

Through the study of mathematics your child will be expected to develop the following knowledge, skills and understanding:

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Conceptual Understanding	Students make mathematical connections instead of over-reliance on procedures.
Critical Thinking	Students are encouraged to check their answers and consider efficiency.

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