



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 - FDP - Negative numbers - Perimeter and area	- Decimals - Percentages - Perimeter and area (including circles) - Volume - Brackets	- Decimals - Percentages - FDP - Perimeter and area - Algebra - Collecting and representing data
Autumn 2	3D forms - Surface area - Algebra - Brackets - Substitution - Ratio and proportion	- Substitution - Equations - Charts - Averages - Ratio and proportion	- Equations - Quadratics part 1 - Ratio and proportion
Spring 1	- Tables - Charts - Averages - Sequences	- Sequences - Straight line graphs - Inequalities - Angles	- Inequalities - Bounds - Volume
Spring 2	- Equations - Straight line graphs - Inequalities	- Indices - Standard form - Real life graphs - Probability 1	- Angles - Similarity and Congruence - Pythagoras - Trigonometry
Summer 1	- Indices - Standard Form - Angles	- Probability 2 - Scatter graphs - Pie charts - Pythagoras - Trigonometry	- Linear graphs - Real life graphs - Sequences
Summer 2	- Shapes and symmetry - Real life graphs - Scatter graphs - Pie charts	- Quadratics - Simultaneous Equations	- Linear simultaneous equations - Indices - Standard Form - Surds

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 [corbettmaths.com](https://www.corbettmaths.com) where videos and worksheets are available.



KS4 Curriculum Overview - Mathematics -Year 11

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Term	Foundation	Crossover	Higher
Autumn 1	- Volume - Probability - Pythagoras	- Cumulative Frequency - Box Plots - Density - Direct and Inverse proportion - Expanding 3 brackets - Volume and Surface Area of 3D shapes	- Cumulative Frequency - Box Plots - Histograms - Vectors - Quadratics part 2
Autumn 2	- Similarity - Trigonometry - Quadratics and graphs	Following the mock exam, students will follow a pathway to higher or foundation. Topics will be bespoke to the teaching groups.	- Probability - Scatter graphs - Cubic graphs - Reciprocal graphs - Further Trigonometry
Spring 1	- Vectors - Simultaneous Equations	For further information, please contact the class teacher.	- Functions - Trig graphs - Transformation recap - Transformation of graphs
Spring 2	- Harder graphs - Construction and Loci - Plans and Elevations - Transformations recap		- Circle theorems/geometry - Construction and Loci - Iteration - Proof
Summer 1	Revision for exam		Revision for exam
Summer 2	GCSE Public Examinations	GCSE Public Examinations	GCSE Public Examinations

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