



KS4 Curriculum Overview - Mathematics - Year 10

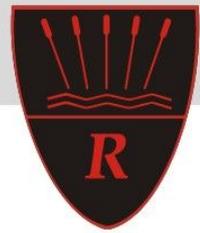
Your child will learn about number, algebra, geometry, ratio and proportion, statistics and probability over the course of the curriculum.

Term	Foundation	Crossover	Higher
Autumn 1	<ul style="list-style-type: none"> Decimals Percentages FDP Negative numbers Perimeter and area 	<ul style="list-style-type: none"> Decimals Percentages Perimeter and area (including circles) Volume Brackets 	<ul style="list-style-type: none"> Decimals Percentages FDP Perimeter and area Algebra Collecting and representing data
Autumn 2	<ul style="list-style-type: none"> 3D forms Surface area Algebra Brackets Substitution Ratio and proportion 	<ul style="list-style-type: none"> Substitution Equations Charts Averages Ratio and proportion 	<ul style="list-style-type: none"> Equations Quadratics part 1 Ratio and proportion
Spring 1	<ul style="list-style-type: none"> Tables Charts Averages Sequences 	<ul style="list-style-type: none"> Sequences Straight line graphs Inequalities Angles 	<ul style="list-style-type: none"> Inequalities Bounds Volume
Spring 2	<ul style="list-style-type: none"> Equations Straight line graphs Inequalities 	<ul style="list-style-type: none"> Indices Standard form Real life graphs Probability 1 	<ul style="list-style-type: none"> Angles Similarity and Congruence Pythagoras Trigonometry
Summer 1	<ul style="list-style-type: none"> Indices Standard Form Angles 	<ul style="list-style-type: none"> Probability 2 Scatter graphs Pie charts Pythagoras Trigonometry 	<ul style="list-style-type: none"> Linear graphs Real life graphs Sequences
Summer 2	<ul style="list-style-type: none"> Shapes and symmetry Real life graphs Scatter graphs Pie charts 	<ul style="list-style-type: none"> Quadratics Simultaneous Equations 	<ul style="list-style-type: none"> 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 [corbettmath.com/contents](https://www.corbettmath.com/contents) where there are videos and worksheets are available.



KS4 Curriculum Overview - Mathematics - Year 11

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Term	Foundation	Crossover	Higher
Autumn 1	<ul style="list-style-type: none"> Volume Probability Pythagoras 	<ul style="list-style-type: none"> Cumulative Frequency Box Plots Density Direct and Inverse proportion Expanding 3 brackets Volume and Surface Area of 3D shapes 	<ul style="list-style-type: none"> Cumulative Frequency Box Plots Histograms Vectors Quadratics part 2
Autumn 2	<ul style="list-style-type: none"> Similarity Trigonometry Quadratics and graphs 	<p>Following the mock exam, students will follow a pathway to higher or foundation.</p> <p>Topics will be bespoke to the teaching groups.</p> <p>For further information, please contact the class teacher.</p>	<ul style="list-style-type: none"> Probability Scatter graphs Cubic graphs Reciprocal graphs Further Trigonometry
Spring 1	<ul style="list-style-type: none"> Vectors Simultaneous Equations 		<ul style="list-style-type: none"> Functions Trig graphs Transformation recap Transformation of graphs
Spring 2	<ul style="list-style-type: none"> Harder graphs Construction and Loci Plans and Elevations Transformations recap 		<ul style="list-style-type: none"> Circle theorems/geometry Construction and Loci Iteration Proof
Summer 1	<ul style="list-style-type: none"> Revision for exam 		<ul style="list-style-type: none"> Revision for exam
Summer 2	GCSE Public Examinations		GCSE Public Examinations

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