

Year 11 Mathematics Curriculum Outline

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Year 11	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Foundation Maths	<p>Perimeter, area and volume 2: circles, cylinders, cones and spheres</p> <p>More fractions, reciprocals, standard form, zero and negative indices</p>	Congruence, similarity and Vectors	Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations	Various depending on unit covered, which is sometimes chosen based on mock papers completed	Review of Foundation GCSE course with tuition on areas that arise	Exam
Year 11 Higher Maths	<p>Circle Theorems: Radii and chords, tangents, Angles in circles, Applying circle Theorems.</p> <p>More Algebra: Rearranging Formulae, Algebraic Fractions, Simplifying algebraic fractions, more algebraic fractions, surds, solving algebraic fraction equations, functions, proof.</p>	<p>Vectors and Geometric proof: Vectors and vector notation, vector arithmetic, more vector arithmetic, parallel vectors and collinear points, solving geometric problems.</p> <p>Proportion and graphs: Direct proportion, more direct proportion, inverse proportion, exponential functions, non linear graphs, translating graphs of functions, reflecting</p>	Students spend this half term revisiting topics that they have found challenging based on analysis of mock exams, on a group by group basis	Differentiated lessons based on current WAG and capacity for improvement following topics suggested by target 5,7,9 work books	Review and application	Exam

		and stretching graphs of functions.				
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