

## Year 11 Curriculum Grid

# MATHS (HIGHER TIER A)

Year/term	Unit of work	Intent
<b>Autumn 1</b>	Geometry	<ul style="list-style-type: none"> <li>• standard circle theorems</li> </ul>
	Probability	<ul style="list-style-type: none"> <li>• venn diagrams</li> <li>• the product rule for counting</li> <li>• conditional probability</li> </ul>
	Statistical Data	<ul style="list-style-type: none"> <li>• review work on cumulative frequency, box plots and histograms</li> </ul>
	Similarity and Congruence	<ul style="list-style-type: none"> <li>• similarity and congruence in 2 and 3 dimensions</li> <li>• formal proof of similarity and congruence</li> <li>• linear, area and volume scale factors</li> </ul>
	Geometry	<ul style="list-style-type: none"> <li>• the geometry of circles</li> </ul>
<b>Autumn 2</b>	Geometry	<ul style="list-style-type: none"> <li>• plans and elevations</li> <li>• using scale</li> <li>• bearings</li> <li>• standard ruler and compass constructions</li> <li>• loci</li> </ul>
	Graphs	<ul style="list-style-type: none"> <li>• graphs of the reciprocal and exponential function</li> <li>• exponential growth and decay</li> <li>• transformations of graphs</li> <li>• estimate area and gradient of graphs</li> <li>• interpret area and gradient of graphs in real world contexts</li> </ul>
	Proportion	<ul style="list-style-type: none"> <li>• direct and inverse proportion</li> </ul>
<b>Spring 1</b>	Vectors	<ul style="list-style-type: none"> <li>• understand and use vector notation</li> <li>• solve problems using vectors</li> <li>• produce geometrical proofs</li> </ul>
	Trigonometry	<ul style="list-style-type: none"> <li>• sine and cosine rule</li> <li>• pythagoras theorem and trigonometry in 3d</li> </ul>
	Graphs	<ul style="list-style-type: none"> <li>• use graphs to solve linear inequalities</li> <li>• quadratic inequalities</li> <li>• use iteration</li> </ul>
<b>Spring 2</b>	Algebra	<ul style="list-style-type: none"> <li>• surds</li> <li>• algebraic fractions</li> <li>• changing the subject of a formula</li> <li>• proof</li> <li>• functions</li> </ul>

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	Trigonometry	<ul style="list-style-type: none"><li>graphs of trigonometrical functions</li></ul>
<b>Summer 1</b>	Review and revise	<ul style="list-style-type: none"><li>work is based on the outcomes of question level analysis of mock exams</li></ul>