

Key Stage 5 Curriculum Overview

Subject: Further Mathematics

Year 12

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Assessment
<p><u>Core Pure 1</u></p> <p>Complex Numbers</p> <p>Argand Diagrams</p> <p><u>Decision Mathematics 1</u></p> <p>Algorithms, Graphs and Networks</p>	<p><u>Core Pure 1</u></p> <p>Series</p> <p>Roots of polynomials</p> <p><u>Decision Mathematics 1</u></p> <p>Algorithms on Graphs</p> <p>Route Inspection</p> <p><u>Further Statistics 1</u></p> <p>Discrete Random Variables</p>	<p><u>Core Pure 1</u></p> <p>Matrices</p> <p>Linear Transformations</p> <p><u>Decision Mathematics 1</u></p> <p>The Travelling Salesman problem</p> <p>Linear Programming</p> <p><u>Further Statistics 1</u></p> <p>Poisson Distribution</p>	<p><u>Core Pure 1</u></p> <p>Volumes of revolution</p> <p>Proof by Induction</p> <p><u>Decision Mathematics 1</u></p> <p>The Simplex Algorithm</p> <p><u>Further Statistics 1</u></p> <p>Chi Squared Tests</p>	<p><u>Core Pure 1</u></p> <p>Vectors</p> <p><u>Decision Mathematics 1</u></p> <p>Critical Path Analysis</p> <p><u>Further Statistics 1</u></p> <p>Hypothesis Testing</p>	<p><u>Revision and End of Year Assessments</u></p> <p><u>Core Pure 2</u></p> <p>Complex Numbers</p> <p><u>Decision Mathematics</u></p> <p>Revision</p> <p><u>Further Statistics 1</u></p> <p>Revision</p>	<p>At the end of Year 12 students will have internal school assessments testing knowledge of Core 1 and the relevant sections of Decision Maths and Further Statistics.</p> <p>We usually complete the Decision Maths syllabus by the end of Year 12.</p> <p>See below for how students are assessed externally at the end of Year 13.</p>

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Year 13

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Assessment
<p><u>Core Pure 2</u></p> <p>Complex Numbers</p> <p>Series</p> <p>Methods in calculus</p> <p><u>Further Statistics 1</u></p> <p>Geometric and Negative Binomial Distributions</p> <p>Hypothesis Testing</p> <p><u>Decision Mathematics</u></p> <p>Revision</p>	<p><u>Core Pure 2</u></p> <p>Volumes of revolution</p> <p>Methods in differential equations</p> <p>Modelling with differential equations</p> <p><u>Further Statistics 1</u></p> <p>Probability generating functions</p> <p>Chi squared tests</p> <p><u>Decision Mathematics</u></p> <p>Revision</p>	<p><u>Core Pure 2</u></p> <p>Hyperbolic Functions</p> <p>Polar coordinates</p> <p><u>Further Statistics 1</u></p> <p>Central limit theorem</p> <p>Quality of tests</p> <p><u>Decision Mathematics</u></p> <p>Revision</p>	<p><u>Core Pure 2</u></p> <p>Revision</p> <p><u>Further Statistics 1</u></p> <p>Revision</p> <p><u>Decision Mathematics</u></p> <p>Revision</p>	<p><u>Revision and examinations</u></p>	<p><u>Revision and examinations</u></p>	<p>All assessment is through examination. All students are tested in four examinations at the end of Year 13. These examinations are each of length 1 hour 30 minutes and account for 75 marks.</p> <p>There will be two examinations on Core Mathematics and one on each of Further Statistics and Decision Mathematics.</p>