

## Sixth Form Subject Information

# Further Maths



<b>Qualification</b>	AS or A-Level	
<b>Exam Board</b>	Pearson, Edexcel	
<b>Course Leader</b>	Mrs D Patrick	
<b>Course summary</b>	<p>Further Maths is an extension to Mathematics and serves those more able students. It is appropriate for those students who have achieved an 8 or 9 at GCSE and a genuine love for mathematics.</p> <p>In this course we will aim to:</p> <ul style="list-style-type: none"> <li>➤ Broaden your range of mathematical skills and techniques</li> <li>➤ Show how different areas of mathematics are connected</li> <li>➤ Help you to become confident and extend your mathematical skills and techniques.</li> <li>➤ Help you use mathematics to as an effective means of communication</li> <li>➤ Use mathematical reasoning to draw inferences.</li> <li>➤ Solve challenging problems</li> <li>➤ Help you become an independent learner.</li> </ul>	
<b>What will students learn?</b>	<b>AS content</b>	<p>The content will consist of Pure and applied mathematics.</p> <p>Pure Mathematics is compulsory and will assess:</p> <p>Proof Complex Numbers Matrices Further Calculus Further Vectors Polar Coordinates Hyperbolic Functions</p> <p>Students will then choose a combination of 2 modules from: Statistics, Mechanics or Discrete Mathematics</p>
	<b>A Level content</b>	<p>This includes all of the AS content but studied to a greater depth. Plus:</p> <p>Differential Equations Further Trigonometry Further Co-ordinate geometry</p>
<b>How will students be assessed?</b>	<b>AS</b>	At AS there will be 2 papers worth 50% of the exam each. They will be a mixture of short and multi-step problems. Each exam will last 1.5 hours.
	<b>A Level</b>	A Level is assessed by three 1.5 hour papers and each paper is 1/3 of the A level. Two papers will be devoted to the core pure maths and one paper to the optional modules.