

Sixth Form Subject Information

Mathematics



Qualification	GCE- AS or A Level	
Exam Board	Pearson, Edexcel	
Course Leader	Mrs D Patrick	
Course summary	<p>Mathematics is a subject which combines well with both Arts and Science subjects. It is highly valued by universities and colleges and can provide students with skills that are invaluable to a whole range of other disciplines. It can also be fun and rewarding in its own right!</p> <p>In this course we will aim to:</p> <ul style="list-style-type: none"> ➤ Develop your confidence in solving mathematical problems and help you enjoy mathematics. ➤ Help you develop strategies to construct proofs ➤ Show you how to extend your range of mathematical skills and techniques ➤ Show how different areas of mathematics are connected ➤ Develop strategies to solve “real world” problems ➤ Help you use mathematics to as an effective means of communication ➤ Master the ability to read mathematical articles ➤ Show how mathematics links to other subject areas ➤ Help you become an independent learner. <p>Mathematics enrichment events and puzzle activities take place throughout the year.</p>	
A-Level content	Proof Differentiation Integration Algebra and functions Coordinate Geometry Sequences and Series Trigonometry Exponentials and Logarithms Numerical Methods	Statistical Distributions Hypothesis Testing Probability Statistical Sampling Vector quantities and units in Mechanics Kinematics Forces and Newton’s Laws Moments
How will students be assessed?	A Level is assessed by two 2 hour papers incorporating pure maths and one 2 hour paper consisting of statistics and mechanics. Each paper will constitute 100 marks and contain a mixture of single and multi-step questions. Each paper will constitute 1/3 of the A level.	