

# Mathematics – Advanced Subsidiary GCE and Advanced GCE

## Course Synopsis

Mathematics develops logical thought and serves as a model for rational enquiry which is used extensively in the sciences. It is one of the most challenging yet rewarding subjects at A level, and is heavily dependent upon high level algebraic skills. These skills are developed throughout the course and students are encouraged to apply them with understanding and confidence. Mathematics develops the essential skills of analysis and rigour; these components form the foundation for success in all areas of mathematics.

Pure mathematics is a core component of the course that involves algebraic skills and calculus. In addition there are application units in; Mechanics (which has close links with Physics); Statistics (very useful in combinations with Biology, Business, economics and Geography) and Decision Mathematics (which combines well with Business, Economics and ICT).

<b>Syllabus Summary</b>	
<b>Year 12 – AS Level (Edexcel)</b>	<b>Year 13 – A2 Level (Edexcel)</b>
<b>Core:</b> C1 and C2	<b>Core:</b> C3 and C4
One optional module to be chosen from: Statistics (S1), Mechanics (M1) or Decision (D1).	Another optional module from those offered in Year 12, or to take further the module studied in Year 12 i.e. (S2), (M2) or (D2).
	<b>FURTHER MATHEMATICS: (C3 and C4)</b> FP1, FP2, as well as one module from above.
<b>Entry Requirements:</b> The minimum entry requirement is a GCSE grade B, but an A*/A is desirable. Students who have a grade B at GCSE must demonstrate that they have the necessary algebraic skills to tackle the course with confidence.	

## 2 Year AS Mathematics:

This course will afford students more time to assimilate the key components of A level mathematics. Students who have achieved a grade B at GCSE may well be better suited to this course.

Entry requirements are as above.