



Further Maths

Awarding Body	EDEXCEL	Specification Code	9FM0
Purpose of the course	Allows students to develop their understanding of mathematics beyond that studied at A Level. Introduces new content such as matrices, complex numbers and hyperbolic functions to increase the range of skills students have and allow them to solve more advanced problems with greater application to real life situations.		
Entry requirements	Mathematics grade 8 or above at GCSE. Confirmation of suitability for course from GCSE maths teacher. Students must also be studying for an A level in mathematics (9MA0).		
Type of qualification	A Level		
Course contents	All students study further pure maths, further mechanics and decision maths. The pure maths content covers: proof, complex numbers, matrices, further algebra and functions, further calculus, further vectors, polar coordinates, hyperbolic functions and differential equations. Further mechanics covers: momentum and impulse, work, energy and power, elastic springs, elastic energy and elastic collisions in one and two dimensions. Decision maths covers: algorithms and graph theory, algorithms on graphs, critical paths analysis and linear programming.		
Assessment method	4 externally assessed papers at the end of year 13, each of which constitutes 25% of the course. Core pure maths paper 1 - 1.5 hours Core pure maths paper 2 - 1.5 hours Further mechanics 1 - 1.5 hours Decision maths 1 - 1.5 hours All allow the use of a calculator.		
Further studies	Further Maths A Level is extremely well regarded by universities and employers. It shows a deeper understanding of mathematical concepts and skills and is excellent preparation for maths based degrees and careers. Many top universities look favourably upon students with a qualification in further maths.		
Subject Lead	Mr P Wesley		