



A Level Further Mathematics

Examination Board: EDEXCEL

Contact Teacher: Mr Darton

Course Details and Assessment

The A Level Further Mathematics course requires the study of A Level Mathematics. It broadens the areas of study in not only pure mathematics but also allows for a greater breadth of study in applied areas including decision mathematics. Pure mathematics content covers important areas such as matrices and complex numbers that are essential in further mathematical study, engineering and physics. It requires greater problem solving skills and is a highly regarded A Level.

The course will cover the following key mathematical topic areas:

AS Course	Full A Level
Complex numbers Matrices Further vectors Proof Further calculus Further algebra and functions Choice of two from Statistics, Mechanics and Decision units.	Polar coordinates Hyperbolic functions Differential equations Choice of two from Statistics, Mechanics, Decision and Further Pure units.

The course is assessed in the following way:

Students who wish to achieve qualifications in Further Mathematics must complete the assessments listed below in the final year of their study of Further Mathematics i.e. either 2 exams at the end of year 1 for AS Level or 4 exams at the end of year 2 for A Level:

AS Level			A Level		
Assessment	Outline	Grading	Assessment	Outline	Grading
Paper 1 1 hour 40	Core Pure Mathematics	50%	Paper 1 1.5 hours	Core Pure Mathematics 1	25%
Paper 2 1 hour 40	Further Mathematics Options	50%	Paper 2 1.5 hours	Core Pure Mathematics 2	25%
			Paper 3 1.5 hours	Further Mathematics Option 1	25%
			Paper 4 1.5 hours	Further Mathematics Option 2	25%

Career/Higher Education	Entry Requirements
Mathematics related university courses Physics, Engineering, Actuary, Accountancy, Economics, Medicine, Architecture, Computing	Grade 7 or above at GCSE Mathematics

"It's not that I am so smart; it is just I stay with problems longer." Albert Einstein