

Further Mathematics

Course Type: A Level

Exam Board: Edexcel

Course Entry Requirements: Standard including a minimum Grade 7 in GCSE Maths

Why Study Further Maths?

To boost your performance in your standard A level Maths and provide a more stimulating experience. To increase your success at university in Maths-based subjects like Engineering, Sciences, Computing, Economics, and of course Mathematics itself.

Further Mathematics is a very prestigious qualification and taking it identifies you to universities and employers as a serious and committed student who is prepared to meet a challenge. Further Mathematics can help to win places on degree courses in Mathematics-rich subject areas. Many universities actively encourage students to take Further Mathematics qualifications and some prestigious courses require it. Mathematical ability is a very valuable asset: if you have some, make the most of it!

What Will I Study? Course Content

Further Mathematics is studied alongside A Level Maths and will deepen your knowledge and understanding of pure Mathematics. The course comprises of four components, two compulsory (both Pure) and two optional. The two optional components will be selected from Further Pure, Statistics, Mechanics and Decision Maths.

Year 12

The compulsory components focus on the Pure Mathematics topics of:

Proof

Complex numbers

Matrices

Further algebra and functions

Further calculus

Further vector

End of Year 12 Assessment (June)

Paper 1: Core Pure Mathematics (1h40m)

Paper 2: Options (1h40m)

Year 13

Students will continue to study the topics that are first introduced during year 12, extending their range of mathematical skills and techniques. In addition, students will also study Polar coordinates, Hyperbolic functions and Differential equations.

Assessment

Paper 1: Core Pure Mathematics 1 (9FM0/01)

Paper 2: Core Pure Mathematics 2 (9FM0/02)

Paper 3: Further Pure 1/Further Statistics 1/Further Mechanics 1/Decision 1 (9FM0/3A – 3D)

Paper 4: Further Pure 1(2)/Further Statistics 1(2)/Further Mechanics 1(2)/Decision 1(2) (9FM0/4A – 4G)

Each paper has a duration of 1 ½ hours, is out of 75 marks and accounts for 25% of the overall A-level grade.