

A Level Further Mathematics



Exam Board: Edexcel

Further Mathematics is an A-level qualification which both broadens and deepens the mathematics covered in the A-level courses. It is designed to be taught alongside A-level Mathematics in Years 12 and 13. Further Mathematics introduces new topics such as matrices and complex numbers that are vital in many mathematics-related degrees. Students who have studied the course find the transition to mathematics-related degrees far more straightforward. It can also boost an individual's performance in A-level Maths. Students who are especially keen on Mathematics will really enjoy Further Maths. It is a challenging qualification, which both extends and deepens students' knowledge and understanding beyond the standard A-level.

Course overview:

Complex Numbers

Matrices

Further Algebra and Functions

Further Calculus

Further Vectors

Polar Coordinates

Hyperbolic Functions

Proof

Differential Equations

Trigonometry and Mechanics

Statistics and Decision options

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Assessment:

4 Papers of 1 hour and 30 minutes each.

Paper 1 25% of A-level 75 marks

Paper 2 25% of A-level 75 marks

Paper 3 25% of A-level 75 marks

Paper 4 25% of A-level 75 marks

There is no coursework element in A-level Mathematics.

Entry requirements:

Grade 7 GCSE Mathematics. Students must also be studying A-level Mathematics.

Who is the course for?

- Any student planning to study a mathematics related degree programme. This covers a very wide range of academic areas – engineering, sciences, computing, finance, economics, as well as mathematics itself.
- Further Mathematics qualifications are prestigious and are strongly welcomed by universities. Students that do Further Maths are demonstrating a strong commitment to their studies, as well as their learning.
- This course is ideal for those wanting to distinguish themselves as able mathematicians in the university and/or employment market.

Career pathways:

Further Mathematics offers routes into careers that are rich in maths, including accountancy, actuarial science, architecture, engineering and data science.

“Further maths is awesome because it challenges me in new ways and teaches me how to solve complex problems”