

# 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 summary:

- **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**

## 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.



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## 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"*



WORK HARD, BE KIND, TAKE RESPONSIBILITY

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part of the  
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