

## A LEVEL

# FURTHER MATHS

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Exam Board: Edexcel	Course Code: 9FM0
<b>Entry Requirements:</b> Average of grade 5 or higher across all GCSE exams including a minimum grade of 5 for English. Grade 8 in Maths. <b>A Level Maths is one of your chosen A Levels subjects</b>	

### Course Summary:

A Level Further Mathematics is designed to broaden and deepen the mathematical knowledge and skills developed when studying A-level Mathematics. It will be studied alongside A-level Mathematics and provides a stimulating experience for those who enjoy the subject. A Level Further Maths provides a much deeper understanding of mathematical concepts. Students will use their mathematical skills and techniques to solve challenging problems which require them to decide on the solution, strategy, recognise when mathematics can be used to analyse and solve a problem in context, represent situations mathematically and understand the relationship between problems in context and mathematical models that may be applied to solve them. A Level Further Maths content is heavily focused on additional Pure Mathematics but also contains a proportion of optional content from Mechanics, Statistics and Decision Mathematics.

### Skills:

Any student capable of passing an AS/A Level in Mathematics should also be able to pass AS Further Mathematics. Studying Further Mathematics consolidates and reinforces your standard A level Mathematics work, helping you to achieve your best possible grades. As well as learning new areas of pure mathematics you will study further applications of mathematics in mechanics, statistics and/or decision mathematics. It is a challenging qualification, which both extends and deepens your knowledge and understanding beyond the standard A level Mathematics. Students who do it often say it is their favourite subject.

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## Assessments:

### Compulsory Exams

Paper 1: Core Pure Mathematics 1

Paper 2: Core Pure Mathematics 2

Each paper is: 1 hour and 30 minutes

worth 25% of the qualification 75 marks

Each paper is: 1 hour and 30 minutes, worth 25% of the qualification 75 marks. 4 papers in total; each 1 hr 30 worth 25% of the qualification

### Options Exams (Choose 2)

Further Pure Mathematics 1

Further Statistics 1

Further Mechanics 1

Decision Mathematics 1

## This course is suitable for students who...

...students who choose Further Maths should have a passion for maths and will be planning to study maths at university and pursue a future career that uses maths in a significant way. They should be expecting to work hard to build on their knowledge from GCSE as well as master A Level Maths content.

## Future careers:

Degree choices where A Level Further Mathematics is listed as useful

Actuarial Science, Aeronautical Engineering, Biochemistry, Biomedical Sciences (including Medical Science), Chemical Engineering, Chemistry, Civil Engineering, Computer Science, Dentistry, Electrical/Electronic Engineering, Engineering (General), Law, Materials Science (including Biomedical Materials Science), Mathematics, Mechanical Engineering, Medicine, Optometry (Ophthalmic Optics), Physics, Veterinary Science

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