

# Further Maths

## COURSE CODE

AS Level            8FM0  
A Level             9FM0

## ENTRY REQUIREMENTS

- 8 in GCSE Maths.

## WHAT WILL YOU LEARN?

Proof, Complex numbers, Matrices, Further algebra and functions, Further calculus, Further vectors, Polar coordinates, Hyperbolic functions, Differential equations. Students get to choose between:

- Further Statistics.
- Further Mechanics.
- Further Decision Maths.

## ASSESSMENT

AS Level: 2 written exam papers:

- 50% = Paper 1. Core Pure Mathematics – 1 hour 40 (80 marks).
- 50% = Paper 2. Further Maths Options – 1 hour 40 (80 marks).
- (Paper 2 covers two of the following options Further Pure, Statistics, Mechanics or Decision).

A Level: 4 written exam papers:

- 25% = Paper 1. Further Pure Mathematics 1 – 1.5 hours (75 marks).
- 25% = Paper 2. Further Pure Mathematics 2 – 1.5 hours (75 marks).
- 25% = Paper 3. Further Maths Option 1 – 1.5 hours (75 marks).
- 25% = Paper 4. Further Maths Option 2 – 1.5 hours (75 marks).

## NEXT STEPS

Students can move on to study a wide range of subjects at University. Most Russell Group universities require students to have studied both Maths and Further Maths to study Mathematics at their university. In addition, Natural Sciences and Medicine degrees require a very good A level Maths grade virtually without exception. A level Further Maths will support the study of Engineering to a high level.

## CAREER INFORMATION

Studying A-Level Maths can be the starting point for a career in analytical or problem solving career. Mathematical modelling particularly in the Pharmaceutical industry attracts a number of Maths graduates, Actuaries within the Insurance sector, Accountancy and Finance in general are all places of work where Mathematics graduates are consistently employed.

## EXTRA COSTS

Students may be required to purchase several textbooks and calculator for £20 each.

