



For someone who enjoys mathematics, it provides a challenge and a chance to explore new and/or more sophisticated mathematical concepts.

If you are planning to take a degree such as Engineering, Sciences, Computing, Finance/Economics, etc., or perhaps Mathematics itself, you will benefit enormously from taking Further Mathematics.

Further Mathematics introduces new topics such as matrices and complex numbers that are vital in many STEM degrees. Students who have studied Further Mathematics find the transition to such degrees far more straightforward.

A level Further Mathematics is a separate A level that is usually taken in addition to taking A level Mathematics. Half of the content of this will be Further Pure and the remainder will be from options such as Mechanics, Statistics, Decision Mathematics or extra Further Pure.

The department will follow The Pearson Edexcel Level 3 Advanced GCE in Further Mathematics, which consists of four externally examined papers. Students will be completing the following papers at the end of their final year in May/June. All four papers are: written examination, 1 hour 30 mins, 25% of the qualification, and worth 75 marks. Calculators can be used in all 4 examinations.

Paper 1: Further Pure Mathematics 1 (*Paper code: 9FMO/01):

Proof, Complex numbers, Matrices, Further algebra and functions, Further calculus, Further vectors

Paper 2: Further Pure Mathematics 2 (*Paper code: 9FMO/02):

Proof, Complex numbers, Matrices, Further algebra and functions, Further calculus, Further vectors

Paper 3: Further Mathematics Option 1

Students take one of the following four options:

- 3A: Further Pure Mathematics 3
- 3B: Further Statistics 1
- 3C: Further Mechanics 1
- 3D: Decision Mathematics 1

Paper 4: Further Mathematics Option 2 (*Paper codes: 9FMO/4A-4G) Students take one of the following four options:

- 4A: Further Pure Mathematics 4, 4B: Further Statistics 1, 4C: Further Statistics 2, 4D: Further Mechanics 1, 4E: Further Mechanics 2, 4F: Decision Mathematics 1, 4G: Decision Mathematics 2.

Useful websites/further reading

www.mathscareers.org.uk

www.plus.maths.org

www.furthermaths.org.uk

www.undergroundmathematics.org

