

A Level

FURTHER MATHEMATICS

Course Overview

A Level Further Mathematics must be studied alongside A Level Mathematics. The syllabus extends the work from the pure, mechanics and statistics areas of the standard Maths course, while also introducing students to the world of algorithms and networks. This final addition is closely linked to computing.

Students will also begin to learn about the concept of proof as it applies to mathematics, which is very different to the approach to proof used in the sciences.

Teaching Methods

Mathematics is a subject that requires practice in order to master the required skills. Students will study the mathematical theories through information provided by their teacher, their own research, and exercises designed to lead them through and develop their knowledge of a particular topic. Students will work through exercises; use a range of puzzles; and produce posters, presentations and revision guides, to practice their skills.

Course Activities

Students will have the opportunity to take part in the UK Maths Challenge, and there are a range of courses and talks provided by the Further Maths Support Programme and Birmingham University, amongst others, that the students can take part in throughout the course.

Components of Course

The final grade for A-Level Further Mathematics is assessed entirely by examination at the end of two years.

Students will also receive regular testing each half term, in order to keep track of their progress through the course.

Examination

AS

3 exams, each 1 hour 15 minutes in length

Paper 1 – Pure Mathematics

Paper 2 & 3 – Applied modules

A-Level

4 exams

Paper 1 – Pure Mathematics – 2 hours 40 minutes – 50%

Paper 2, 3 & 4 – Applied modules – 1 hour 15 minutes each – 16% each

Course Outline

Examination - 100%

Exam Board

Pearson Edexcel Level 3

Advanced GCE in Mathematics (9MA0)

Entry Requirements

A minimum of five GCSEs (with two at grade 6, and three at grade 4).

Students will need to have scored a grade 7 at GCSE and ideally will have a minimum G-score of 6.3.

Student Testimonial



Maisie studied A-Level Mathematics, Further Mathematics and a BTEC Subsidiary Diploma in Music Performance, obtaining grades A B and Distinction.*

Maisie was given an unconditional offer from Aberystwyth, and is now studying Mathematics with Education
Maisie Truman

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