

Why study A Level Further Mathematics?

Further Maths is a challenging qualification which both extends and deepens your knowledge beyond the standard A Level. It is designed to stretch and challenge able mathematicians and prepare them for university courses in mathematics and related quantitative and scientific subjects. Studying Further Maths qualifications are highly regarded and are warmly welcomed by universities. Some prestigious universities may require you to have a further maths qualification and others may adjust their entry requirements more favourably for students with Further Maths.

What will I study?

You study Further Maths in addition to A Level Maths. Further Maths broadens your mathematical skills and promotes deeper mathematical thinking, developing all the algebraic skills from mathematics A Level. You will be introduced to interesting new areas of pure mathematics such as complex numbers, matrices and hyperbolic functions. This makes up 50% of the course.

25% of the course sees you study statistics in greater depth including the Poisson distribution and chi squared tests.

The remaining 25% of the courses builds upon the mechanics studied in the A Level course and will include motion in a circle, work, energy and power.

Assessment

100% examined.

Paper 1: Written exam 1.5 hours in length, testing any of the pure content.

Paper 2: Written exam 1.5 hours in length, testing any the pure content.

Paper 3: Written exam 1.5 hours in length, testing any of the statistics content.

Paper 4: Written exam 1.5 hours in length, testing any of the mechanics content.

Study trips, visits and events

In addition to the A Level maths trips, the Advanced Maths Support programme runs weekly sessions at Bath University to support students studying for STEP, MAT or TMUA papers – well-established mathematics examinations designed to test candidates on questions that are similar in style to undergraduate mathematics. Universities sometimes ask students to take these papers as part of their offer.

Subject entry requirements

A grade 7 in mathematics at higher tier.



Student Perspective

“I have been studying Further Mathematics for over a year now and it is easily my favourite subject due to the vast array of opportunities it presents to both improve my mathematical understanding and higher level thinking skills. Further Mathematics also places more emphasis on independent thinking rather than using any pre-defined techniques which makes it significantly more enjoyable.”

Bailey, A Level Further Mathematics student