



Further Mathematics AS and A Level

Examination Board: AQA

Further Mathematics is designed for students with an enthusiasm for mathematics, many of whom will go on to study for degrees in Mathematics, Engineering, the Sciences and Economics.

The qualification is both deeper and broader than A Level Mathematics. AS/A Level Further Mathematics builds from GCSE level and AS/A Level Mathematics, and is taught in tandem with the standard A Level Mathematics.

As well as building on algebra and calculus initially introduced in A Level Mathematics, the core content of Further Mathematics introduces complex numbers and matrices, fundamental mathematical ideas with wide applications in mathematics, engineering, physical sciences and computing.

The non-core content includes different options that can enable students to specialise in areas of mathematics that are particularly relevant to their interests and future aspirations.

Students who take AS and A Level Further Mathematics will need an excellent independent work ethic, as consolidation of skills and techniques learnt in the classroom is essential. Aside from lessons, help is available from department staff and from online sources.

Assessment:

For the AS Level qualification there will be two examination papers, of 1½ hours in duration, which will be taken in the summer of Year 12. Questions will include a mix of styles, from single-mark questions to multi-step problems.

For the A Level qualification there will be three examination papers, each lasting 2 hours, which will be taken in the summer of Year 13. Questions will, again, include single-mark questions and multi-step problems.

Careers and Study Progression:

A Level Further Mathematics prepares students for further study and employment in highly mathematical disciplines that require knowledge and understanding of sophisticated mathematical ideas and techniques.

An A Level in Further Mathematics is evidence of excellent evaluation skills, whatever career or degree you are embarking upon. Further Mathematics qualifications are highly regarded by universities, particularly as students who take Further Mathematics demonstrate a strong commitment to their studies, as well as learning mathematics that is very useful for any mathematically-rich degree or STEM subject. Depending upon the type of degree you are considering, some of the Russell Group universities may require you to have a Further Mathematics qualification and others may adjust their grade requirements more favourably to students with a Further Mathematics A Level.