Further Mathematics

Subject content

The content of A Level Further Mathematics splits into two strands: Compulsory (Core) Pure Maths and Further Applied Maths. **50%: Core Pure Mathematics** builds on the knowledge and understanding of algebra and extends the content introduced in A Level Mathematics. You will meet new topics such as complex numbers, matrices, proof, hyperbolic functions, polar coordinates and further calculus. **50%: Further Applied Maths** options will be chosen depending on the strengths of the group. Options are available in Additional Pure Maths, Statistics and Mechanics as well as a relatively modern branch of Maths known as Decision Mathematics. This uses algorithms to solve a range of problems involving networks and is particularly useful in science, computing, business and industry. You can view EDEXCEL course specifications by clicking on the link below; Further Mathematics on EDEXCEL [https://qualifications.pearson.com/content/dam/pdf/A%20Level/Mathematics/2017/specification-and-sample-assesment/a-level-l3-further-mathematics-specification.pdf]

Specific entry requirements

You must have a minimum of Grade 8 in GCSE Maths. Since A Level Further Mathematics is a second A Level in Maths, you must also be studying A Level Mathematics alongside this course. In most cases we would expect A Level (or AS Level) Further Mathematics to be taken as a fourth A Level course.

Learning methods

You will deepen your understanding of Maths by discussion and group work as well as independent research and practical work.

Assessment

This course is unique in that it can be studied as either an AS Level qualification or full A Level. This allows students who perform well in Year 12 Mathematics to pick up AS Further Mathematics in Year 13. This is a real advantage, especially if you are looking at studying Maths at university. For AS Level there are two exams: Core Pure Maths and Further Applied Maths. All candidates will sit these exams at the end of the first year to assess their suitability to progress onto the A Level course. For A Level there are four exams: two Core Pure papers and two Further Applied papers. The content from both years of study are examined in these papers.

Progression opportunities

A Level Further Mathematics is a highly regarded and prestigious qualification. Many Higher Education programmes in maths, physics and engineering now ask specifically for Further Mathematics to at least AS Level. Graduates go on to have a range of careers in areas such as actuarial science, quantitative finance and risk management, aerospace engineering, biomathematics and cryptology.

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Want to apply?

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