



A Level Maths and Further Mathematics

Careers related to this subject could include:

Statistician, Data Analyst, Engineer (e.g. Aerospace), Astrophysicist, Health Sciences. It is becoming more and more common for Universities to request Further Maths as one of their core requirements in subjects such as Mathematics, Engineering and Physics.

In addition, any students wanting to study any of these subjects will find these more challenging courses more manageable if they have studied Further Maths.

What do I need?

5 GCSEs at grade 5-9 including Maths at grade 7 or above, in addition to an average GCSE grading of 6 or above

What's it all about?

This challenging course covers a range of topics including matrix algebra, complex numbers, further calculus, vectors and functions. This course is studied alongside, and in addition to, A-Level Maths (as a fourth subject) and is particularly useful if you are intending to study a mathematical subject at university.

What skills will the course help you develop?

Fluency in the key mathematics topics for science and engineering

Organising and presenting a structured and logical argument

Confidence in mastering challenging ideas and overcoming difficulties

Thinking in an abstract and symbolic way.

How is the course assessed?

The course is assessed through exams only with 4 exams taken for a full A-Level at the end of the 2 year course. Paper 1 covers all Further Pure mathematics with Paper 2, 3 and 4 giving options of topics including extension of Further Pure Mathematics, Further Mechanics, Further Statistics and Discrete. Paper 1 is worth 144 marks (50%) and is a 2 hour 40 minute exam with papers 2, 3 and 4 all worth 60 marks each (16 2/3%) and are 1 hour 15 minute exams.