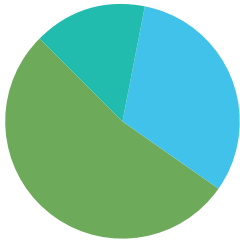

A Level Further Mathematics





When studying A Level Further Mathematics you go deeper into the theory of Maths; learning the material in a more stretching and challenging way. Further Maths enables students to broaden their knowledge of Maths and also study Maths to a level similar to that studied at university, and as such, students go to university better prepared.

Level Level 3

Specific course entry requirements

College entry to include GCSE Mathematics minimum Grade 7.

A Level Further Mathematics and A Level Mathematics make up Double Mathematics and must be studied together (please refer to the Entry Requirements section page 24 for further details).

What will I study?

In addition to the topics covered within the A Level Mathematics course, Further Mathematics students also study:

- + Imaginary numbers - How negative numbers can have square roots and what the consequences are. This is applied in complex calculus and is unexpectedly useful in Electrical Engineering
- + Maclaurin's Series - The Maths behind how values of sines, cosines and tangents are found
- + Polar Co-ordinates - How more complex functions can be graphed and their areas calculated
- + Second Order Differential Equations - The Maths behind the stability of static and dynamics structures such as bridges and aircraft

How will I be assessed?

100% Examination

Where will this course lead me?

Mathematics courses at university, but Further Mathematics is useful for other degrees such as Engineering, Sciences, Economics, IT and Computing.

