



Why study Further Mathematics at Formby High School?

Further Mathematics A Level is ideal for students who want to go on and study Mathematics at university. In addition, an increasing range of other university courses also value Further Mathematics.

This course is not just for exceptionally gifted mathematicians but also anyone who enjoys Mathematics and thinks they might wish to do a degree at a good university in Physics, Engineering, Computer Studies, Sciences or Economics. It is also useful if you wish to move into the business and financial world as a career.

What does the course involve?

The A Level Further Mathematics course includes:

Further Pure Mathematics 1:

Proof, complex numbers, matrices, further algebra and functions, further calculus and further vectors

Further Pure Mathematics 2:

Complex numbers, further algebra and functions, further calculus, polar coordinates, hyperbolic functions & differential equations

Pick two from the following options:

Further Statistics: Linear regression, statistical distributions, correlation, hypothesis testing and chi squared tests, probability distributions, combination of random variables, estimation, confidence intervals and normal distribution and probability

Decision Mathematics 1: Algorithms and graph theory, critical path analysis and linear programming, transportation problems, allocation problems, flows in networks and linear programming, game theory, recurrence relations and decision analysis

The course is assessed at the end of Year 13 by three examinations, each lasting two hours.

What can the qualification lead to?

Further Mathematics is important for students wishing to pursue a degree in STEM subjects of Science, Technology, Engineering and, of course, Mathematics.

What are the entry requirements?

Grade 8 in GCSE Mathematics (and must be studied alongside A Level Mathematics).

Which other subjects complement Further Mathematics

- Biology
- Chemistry
- Computer Science
- Engineering
- Mathematics
- Music Technology
- Physics

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A Level Further Mathematics gives you the chance to explore topics that you don't do in normal Maths and it helps to give a deeper understanding of what you are doing in the A Level. It also allows you to develop other skills such as problem solving and analytical thinking which are useful in any path you pursue.

The Maths department are really enthusiastic, knowledgeable and supportive. They have helped to build my knowledge and interest in maths and they also really great at providing the resources to help students study Maths in the future.

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Jessica chose to stay at Formby High Sixth Form