

FURTHER MATHEMATICS

A course intended for students with a natural talent for mathematics wishing to pursue careers with a high mathematical content

COURSE DETAILS

2 separate A Levels
Edexcel - 9MA0 & 9FM0
Maths GCSE Grade 7 or higher

Students following this course complete both A level Mathematics and A level Further Mathematics. They will be working at a faster pace, and the workload will be more challenging, but they will be given an excellent preparation for higher education.

Students will complete two A levels during this course. They will be given more than the standard numbers of lessons for one subject option, but the pace and challenge will be demanding. At the end they will have a rich, broad mathematical base, and should have developed a comprehensive range of problem solving skills:

A level Mathematics

- 1 Two thirds pure maths, including algebra, graphs, trigonometry, calculus and logarithms.
- 1 One sixth statistics, including sampling, probability and data analysis.
- 1 One sixth mechanics, studying forces and motion.

A level Further Mathematics

- 1 One half pure maths, including algebra, complex numbers, matrices and proof.
- 1 One quarter mechanics, including energy, power and collisions.
- 1 One quarter decision maths, using algorithms for example to find the shortest route around a network.

Usually this course is taken by students where mathematics is a particular strength. It provides the strongest foundation for those wishing to study subjects like maths, computing, science, engineering or economics at university. Having maths and further maths on any university or job application is a way to make it stand out.

