edexcel

Further Maths
A Level

Topics Studied

Complex numbers
Advanced calculus
Use of power series
Statistical techniques
Advanced mechanics
Algorithm
Matrices

Entry Requirements

Minimum 5 GCSEs at Grade 4 or above
Including at least grade 7 in Maths
Can only be studied alongside A Level Maths

Course Description

Further Maths builds on skills in A Level Maths, expanding into more complex general methods known as pure maths as well as applying them to statistics, mathematical physics and methods used in computing and project management. Students who have studied Further Maths have found that it gives a great start on university courses such as physics, engineering, astronomy, computing and, of course, maths.

The course introduces the study of complex numbers which are numbers that don't exist in the real world. However, as an abstract concept they are invaluable in many aspects of physics, for example, to model wind flow used in the testing of aircraft design. A large section of the syllabus looks at advanced use of calculus which is the most used tool on university courses with a mathematical base.

"Further Maths is a great challenge and makes you feel like a proper mathematician! I love the range of topics and the cool stuff you discover— like imaginary numbers."

Naomi, previously St Edmund's Girls' School

100%