Further Mathematics

COURSE OVERVIEW

Further Mathematics is a natural extension to Mathematics A-level, taking you twice as far and as deep.

The structure of the course is such that students will complete A level Mathematics in year 12 and then complete Further Mathematics in year 13.

An example of some of the topics you will study are:

Series, complex numbers, matrix algebra, proof, first & second order differential equations, Maclaurin and Taylor Series. Along with this core content you will have the option of studying some 'applied' topics from either decision or further mechanics.

KNOWLEDGE & SKILLS DEVELOPED

Successful candidates in A level Further Maths gain many lifelong skills these include a deeper understanding of mathematical principles to that of A level Maths, a further development of mathematical skills including the use of applications of mathematics in the context of everyday situations, the ability to analyse problems logically, recognising when and how a situation may be represented mathematically, the use of mathematics as a means of communication and will provide a solid foundation for further study.

Qualification: **A-Level**

Awarding Body: **Pearson Edexcel**

ASSESSMENT METHOD

Further Maths A level is a linear specification, so all assessment will be examinations at the end of the course.
There are four equally weighted exams at the end of the course, as follows:

- Paper 1: Core pure 1 Mathematics, 1.5 hours
- Paper 2: Core pure 2 Mathematics, 1.5 hours
- Paper 3: Further pure 1 Mathematics, 1.5 hours
- Paper 4: Either Further Mechanics, Further Statistics or Decision 1, 1.5 hours

OPPORTUNITIES AND CAREERS

Further Mathematics is a "facilitating" subject. This means that they are among a list of A-level subjects which are asked for most frequently by universities.

The skill set developed in this course prepares you for the material and rigour of university level study in Mathematics and Mathematical Sciences like Physics, Engineering, Economics and Chemistry. From here students are able to go into careers from these backgrounds.

"If you love Maths then this is the subject for you. I am hoping to study a Maths related degree at university, so this course is essential for my future aspirations."