

# A Level Further Maths



*"The difference between the poet and the mathematician is that the poet tries to get his head into the heavens while the mathematician tries to get the heavens into his head."*

G.K. Chesterton

If you know you simply will not be satisfied by the amount and challenge of Maths on the A-Level Mathematics course, Further Maths is for you.

Through studying another full A-Level in Maths, you will see the world from a different perspective as you stretch the limits of your mind through investigating imaginary numbers and become adept at manipulating algebra as if it were mathematical Plasticine. Join the elite group of true 'mathemagicians'.

Over the two years, in addition to furthering your study of Pure Maths and Mechanics, you will also be challenged by Decision Maths, comprising Sorting, Algorithms, Graph Theory and Shortest Path problems.

## How you will be assessed:

100% written examination at the end of the course, comprising four, 90 minutes, papers, each worth 75 marks and 25% of your total grade:

Core Pure Maths 1

Core Pure Maths 2

Option 1: currently Decision Maths 1

Option 2: currently Further Mechanics 1

## What you need to get started:

In addition to the requirements for A-Level Mathematics:

- GCSE Mathematics Grade 7
- Insatiable hunger for mathematical discovery

## What our students say:

*"I have always had a passion for and enjoyed Maths and felt as though taking only A-Level Maths wasn't going to fulfil my desire to learn as much as possible in this subject. Taking Further Maths wasn't necessary for what I want to do after Sixth Form, however I wanted to continue extending my knowledge and experiencing the satisfying feeling of understanding topics that seemed challenging and intimidating at first. I also think that the deeper thinking and more challenging problem-solving questions, that you don't get in any other subjects, will improve my skills of thinking critically and logically, which will help throughout the rest of my life, as well as increasing my understanding of the other subjects I have taken this year."*

Aston, Year 13 Student

*"Maths is one of the subjects that I have always enjoyed the most. When I was in Year 7 I realised how amusing Maths was, from then I've started to love learning about Maths and finding out more about it. This is the reason why I picked Maths and Further Maths at A-Level, Further Maths introduces many things we didn't learn at GCSE, it is a completely different subject comparing to Core Maths. Personally I'd say Further Maths is one of the subjects that is challenging, but at the same time it is useful and enjoyable."*

Teng, Year 13 Student



## What next?

In addition to the opportunities presented by Mathematics, Further Maths is a desirable subject for entry to degree courses in Mathematics and Computer Science at top universities. Successful students of Further Maths can expect to have huge advantages over others in Maths or Engineering, as some of the concepts covered form part of the first year of many of those degrees.

... pursuing excellence