FURTHER MATHEMATICS

Exam Board: Edexcel
Specification: Click here for more information

COURSE SUMMARY

Opting for Further Maths means you are taking two A Levels in Maths – Maths and Further Maths. This means you have eight hours of Maths lessons per week to extend and develop your understanding of Pure Maths (algebra, trigonometry, calculus, coordinate geometry) to solve problems, and apply your skills in Statistics (data handling and probability) and Mechanics (how and whether things move). A Level Further Maths requires excellent algebra skills and the ability to enjoy the challenge and satisfaction of solving complex problems.

> *"When I leave school I hope to study Mathematics at Warwick or Exeter University and then become an Actuary. I have studied Further Mathematics, Mathematics, Biology and Sociology."* Amy

WHY STUDY FURTHER MATHEMATICS?

If you choose Further Maths it means the subject has to be something you really enjoy and are willing to spend a lot of time doing. Maths takes up your life with the students in the class having a maths addiction; the lessons and the subject become like a family. The class atmosphere is amazing and the teachers are very supportive. *Anya*

WHAT HAPPENS IN LESSONS?

Lots of maths! Typically students go through theory and examples in the first half of the lesson and then the remainder is spent going through questions. The lessons are fast paced with each lesson covering one topic. *Amy*

COURSE ASSESSMENT

This is a linear course. This means that students opting for an A Level in this subject will be committing to a two year linear course with all units examined at the end of Year 13. AS Levels will still exist and can be taken as a stand-alone qualification at the end of year 12, but students taking this option and then continuing to study the subject in Year 13 would have to sit all the A Level units as linear exams to gain that qualification.

MIGHT LEAD TO...

Anything you want! Almost any university course or job values A Level Further Maths highly. If you wish to study Maths itself at university, or apply for engineering to certain universities, you are advised to take Maths and Further Maths. It is also recommended for some courses in the physical sciences and computing.

ADVICE ON ENTRY

Grade 7 or higher in GCSE Maths is required.

READING AROUND THE SUBJECT

- RISPS
- Hegarty Maths
- Further Maths Support Programme

Books

- Paul Nahin, *An Imaginary Tale*
- Simon Singh, *The Code Book*

See also books listed under Maths