

# FURTHER MATHEMATICS

## STAFF CONTACT:

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## COURSE CONTENT:

You will choose Further Maths because of a real enthusiasm for maths, and an aspiration to further study in maths, engineering, the sciences and economics. You will explore complex numbers and matrices, as well as building your understanding and knowledge of sophisticated mathematical ideas and techniques. You can choose options to specialise in areas that are particularly relevant to your interests and aspirations.

## RESULTS 2013-16

A\*-B 79% | A\*-C 90% | A\*-E 100%



FURTHER MATHEMATICS IS PARTICULARLY USEFUL PREPARATION FOR COURSES IN THEORETICAL AND/OR MATHEMATICAL PHYSICS, WHICH HAVE A MORE SOPHISTICATED MATHEMATICAL CONTENT.

## EXAMS:

The final examinations consist of 4 one and half hour papers. The first two papers are compulsory while paper 3 and 4 allow for a number of options.

Paper 1 – Pure Maths marked out of 100.

Paper 2 – Pure Maths marked out of 100.

Paper 3 & 4 – More pure and applied maths options including Decision, Mechanics and Statistics also marked out of 100.

**EXAM BOARD:** Edexcel

## CAREER OPPORTUNITIES:

The students who choose to study Further Mathematics are more commonly the students who go on to study Mathematics, Physics or Engineering at one of the Russell Group universities. Careers where Further M0aths is highly desirable are those involved with mathematics at a high level.

## These include:

- Statisticians
- Engineers
- Computer scientists
- Physicists
- Economists
- Actuary

## TRIPS INDUSTRY LINKS AND WORK EXPERIENCE:

Previous students have completed work experience with a number of financial and engineering firms. The department is developing links with the local STEM (Science, Technology, Engineering and Mathematics) network which can arrange gap year placements with STEM firms.

There will also be the opportunity to compete in a number of mathematical competitions.

## ENTRY REQUIREMENTS:

**Sixth Form entry criteria plus:  
Minimum GCSE grade 8 in  
mathematics**

## STUDENT PROFILE:



**Lydia Nuttall**

Studying Further Mathematics, Mathematics, Physics and French. Previous School Farmor's. Ambition to study Engineering at university.

*"Physics and mathematics are essential requirements for entry to a physics degree. Good supplementary subjects include another science, such as chemistry or geology, and further mathematics, either to AS or A-level."*

Professor Peter Main, Director,  
Ed. and Science: Institute of Physics