

MATHEMATICS

STAFF CONTACT:

Mr Graeme Spurr: gspurr@farmors.gloucs.sch.uk

COURSE CONTENT:

You will study pure maths including extensive use of algebra, calculus and trigonometry as well as applied maths including statistics and mechanics focusing on how maths can be used to model the real world in order to solve problems. Mechanics overlaps strongly with Physics A-level whereas Statistics deals with probability, sampling data and statistical hypotheses which overlap with Geography, Psychology and Biology.

RESULTS 2013-16

A*-B 63% | A*-C 83% | A*-E 100%



HIGHLY NUMERATE DISCIPLINES ARE IN GREAT DEMAND FROM EMPLOYERS AND YOUNG PEOPLE WITH MATHS QUALIFICATIONS WILL FIND THAT THEIR DEGREES CAN OPEN DOORS TO EXCITING AND REWARDING CAREERS

Susan Anderson, Director HR Policy: CBI

EXAMS:

The final examinations consist of 3 two hour papers.

Paper 1 – Pure Maths marked out of 100.

Paper 2 – Pure Maths marked out of 100.

Paper 3 – Applied Maths including Mechanics and Statistics also marked out of 100.

EXAM BOARD: Edexcel

CAREER OPPORTUNITIES:

In an increasingly numerical world A-level maths is useful in a large number of degree courses and careers. It is a subject that is highly valued both by universities, as a facilitating subject, and employers for the problem solving skills it develops.

It is essential for further study of
Mathematics
Statistics
Engineering
Physics

It is desirable for:

Other physical sciences
Computing
Architecture
Computer animation
Psychology and other social sciences
Actuary
Meteorology
Economics
Accounting

And numerous other careers rely on a good understanding of number.

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.

STUDENT PROFILE:



Robyn Turner

Previous School Farmor's. Studied Mathematics, Physics and Psychology and EPQ. Now doing an engineering apprenticeship with Landrover.

ENTRY REQUIREMENTS:

Sixth Form entry criteria plus:

Minimum grade 7 in GCSE Mathematics