

MATHEMATICS

OVERVIEW

The best reason for studying Maths is that you enjoy it and feel it's a subject you want to learn more about.

Mathematics is a 'facilitating subject', one which is required more often than others for university entry. It is essential for engineering, physics and actuarial science degrees. It is also advantageous when applying for medicine, dentistry, computing, economics and architecture courses.



It supports and combines with a wide range of other A-level choices including sciences, business, economics, psychology and geography.

COURSE CONTENT

Edexcel A-level Mathematics

Paper 1: Pure Mathematics 1

Pure Maths Content
2 hours, 100 marks.

Paper 2: Pure Mathematics 2

Pure Maths Content
2 hours, 100 marks

Paper 3: Statistics and Mechanics

Statistics (50 marks)
Mechanics (50 marks)
2 hours, 100 marks

A calculator will be allowed in all three papers.



2024 Results

A-level Maths:

73% (A* - C)

A-level Further Maths:

83% (A* - C)

2023 Results

A-level Maths:

62% (A* - C)

A-level Further Maths:

100% (A* - C)

WHAT CAN YOU EXPECT?

You will probably find that you are being taught by two members of staff who will divide up the topics and modules between themselves.

At A-level, students are expected to take a full and active part in lessons. Formal notes and examples will be given but a proportion of the time is spent in group discussion looking at techniques and concepts. In order to develop skills and understanding students are encouraged to share ideas and approaches, often by presenting their work to the class.



You will work from text books supplemented by duplicated handouts and electronic resources. You will probably find the pace of lessons fast. This can be a shock to start with but your teachers will help you adjust to this. You will be given regular homework practice to encourage success and you can arrange to have extra help from staff at any reasonable time. You will be given constructive feedback about your progress through marked work, discussion and monitoring.

All the maths teachers are very approachable and you will find they are keen to help you overcome any problems you may have. In the past we have found that our successful students are persistent students. When in doubt **make the effort to ask for help**.

OPPORTUNITIES OUTSIDE THE CLASSROOM

All sixth form maths students are given the opportunity to enter the UKMT Senior Maths Challenge. We also enter the Team Maths Challenge. In addition, students are encouraged to take advantage of events provided by universities; recent examples include public maths lectures at Leeds University and 'Women in Maths' and 'Further Maths? What Next?' at Oxford University.

We encourage mathematics students to take on leadership roles including helping with the Math Roadshow for years 7 & 8 and Bronte students, leading or assisting with small intervention groups, organising chess fixtures as well as being visible and approachable on open mornings and evenings.

FURTHER MATHEMATICS A-LEVEL

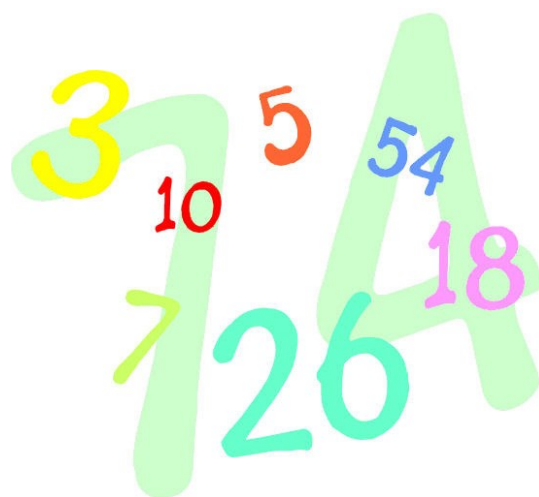
We are proud of our excellent record in both numbers and success rate in Further Maths. Students who choose Further Maths currently study the A-level Maths course in Y12, followed by the Further Maths course in Y13.

Mathematics with Further Mathematics is two A-level courses, leading to two separate qualifications. The course consists of a mixture of compulsory and optional papers. 50% of the course is compulsory further pure content. The remaining material is chosen from more further pure, further mechanics, further statistics or decision mathematics. The exact content taught may depend on the subject combinations and ambitions of the students.

Is it for you?

Yes, if you:

- Usually find you grasp new topics easily
- Expect to achieve a grade 8 or 9 in GCSE Maths
- Wish to possess a most impressive qualification
- Are aiming for a top university course where a high level of mathematical knowledge is assumed.



How does it compare to A-level Mathematics?

Further Mathematics is not necessarily harder than A-level Mathematics, but it is more demanding. Some of the topics will stretch your abilities and there are several new topics to understand. Greater expectations will be made on you in terms of the amount of work done outside lesson time. However, while this course is worth two A-levels, it is nowhere near twice as much work as A-level Maths on its own.

If you are interested in Further Maths please speak to someone from the department and they will be happy to tell you more.

Useful Websites:

www.mathscareers.org.uk

nrich.maths.org

www.mathswebsite.com

www.themathsteacher.com