

Year 12 Induction Evening

Results

In 2019 53% of students studying A2 mathematics achieved an A or A* grade. 74% received A*-B.

Course Structure

Pure mathematics, statistics and mechanics are taught in year 12 and year 13 by two teachers. There are three examinations in year 13.

Change from GCSE to A-level

4 hours per week per teacher of independent study. (1 hour per night or study periods may be used).

Homework

Will be set each week and accessed on Google Classroom. Includes practice questions, exam style questions and topic assessments. Additional textbook work may also be set by teachers.

Useful resources

The students will have textbooks from the library. They have exercise books and folders to keep their work organised.

The school will provide them with a subscription to the MyMaths website.

Exam/revision resources will be provided before mocks.

We will write to you shortly regarding all these resources and also revision guides.

Independent study and reading

The students may need to prepare for maths lessons by reading and making notes on the content in the textbook.

A book list has been provided which is an important part of the appreciation of mathematics and is useful to talk about in personal statements for UCAS.

Keys to Success and Failure

The mathematics department will run an A-level maths surgery. This will be remote for the time-being. If students need help with their work maths surgery is the place to start. We encourage all students to attend maths surgery regularly.

Some good GCSE maths students coast at the start of year 12 because they are good at maths and think they don't need to do much work. Some students only do the minimum that is set and underachieve as a result.

Practice is key. You can never do enough maths examples, questions and past papers. Starting revision early: continuously practising the skills is much better than cramming which is ineffective in maths. Do some at home every day.

Be organised and plan ahead. If you know you are going to be away or have other pressures such as coursework coming up then you can prepare and get ahead with your maths work instead of falling behind.

One final point, in maths more than any other subject your progress in a later module depends on what you have learnt in the previous one. If you want to do well you must work consistently hard.

There will be regular assessments on each topic that are completed and formal examinations twice during the year to monitor students' progress.

Further Mathematics

What is Further Mathematics

A level further mathematics requires another 4 papers which are sat in year 13. These are Core Pure 1 and 2 and Decision Maths 1 and 2.

You will have two additional teachers who teach these modules. Additional homework will be set in the same way through Google Classroom.

Why do Further Mathematics

. . . . Because you enjoy challenging Mathematics. Further mathematics is a requirement for some courses at top universities, typically economics (LSE), Computer Science, engineering and mathematics and some physics degrees. It is also appreciated by many universities because it is a challenging and academic subject. Some universities will give lower UCAS offers to students studying further mathematics.

If you are not doing Engineering, Mathematics or some science degrees it is unlikely that the university will include further mathematics in you offer.

Further Maths as a fourth subject

Studying Further Maths will mean doing four A Levels, which is demanding As a result, your grades will be scrutinised to ensure that you are keeping up.

All Further Maths students last year achieved an A* at A level and 2/3 achieved As in Further Maths.