



## COURSE SUMMARY

A Level Mathematics will extend and develop your use of algebraic techniques to solve problems in a variety of mathematical contexts. This includes calculus, trigonometry and coordinate geometry (graphs). You will also apply your skills to problems in statistics (data handling and probability) and mechanics (objects moving, or not, in the real world). To be successful you need to be confident with algebra and enjoy Maths!

## WHY STUDY MATHEMATICS?

Maths offers so many transferrable skills and is helpful to such a wide range of subjects. It is a well respected subject by universities and supports many other subjects, especially sciences. It involves a lot of logical thinking.

Jess

## MIGHT LEAD TO...

A Level Maths is an excellent foundation from which students can proceed into a range of different academic careers and disciplines. Students with A Level Maths go on to pursue higher education and careers in a wide range of courses including medicine, sciences, finance, social science and computing. Students wishing to study Maths itself at university, or apply for engineering to certain universities, are advised to take Maths and Further Maths.



"When I leave school I hope to study Chemical Engineering at university. I have studied Maths, Chemistry and Psychology." Jess

## ADVICE ON ENTRY

Grade 6 or higher in GCSE Maths is required.

## READING AROUND THE SUBJECT

- [RISPS](#)
- [Hegarty Maths](#)
- [Interactive Mathematics](#)

## Books

- Keith Devlin, *The Millennium Problems*
- Edwin Abbott Abbott, *Flatland*
- G.H. Hardy, *A Mathematician's Apology*
- Charles Seife, *Zero*
- Marcus Du Sautoy, *The Music of the Primes*

## WHAT HAPPENS IN LESSONS?

Students need to enjoy problem solving and must not expect to get the answer right first time! In Maths you learn from your mistakes. The lessons involve group work and interactive activities, but also lots of notes and practice questions. Jess

## 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.