



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 skill are hugely transferable and useful in a wide range of careers, as well as in day-to-day life. It is a desirable qualification for universities and supports other courses like sciences, computing and economics." *Hannah*

"When I leave school I hope to study computing at University. I study Mathematics, Further Mathematics, Computing and Business Studies." *Punam*

WHAT HAPPENS IN LESSONS?

"Students take comprehensive notes and work through examples and practice questions in class to consolidate their learning. There are also lots of opportunities for group work and teachers are very supportive and helpful." *Hannah*

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.

MIGHT LEAD TO...

A Level Mathematics is an excellent foundation from which students can proceed into a range of different academic careers and disciplines. Students with A Level Mathematics 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 Mathematics itself at university, or apply for engineering at certain universities, are advised to take Mathematics and Further Mathematics.

ADVICE ON ENTRY

Grade 6 or higher in GCSE Mathematics is required.

READING AROUND THE SUBJECT

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

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*

