

Maths

Mathematics is a **challenging** and **valuable** A level qualification, popular because of its **stimulating curriculum** and its **high regard in industry** and the **employment market**. This is why university mathematics graduates earn approximately **10% more** than their peers!

In studying mathematics beyond GCSE, students explore its beauty, both in terms of abstract algebra & proof and its application to real world problems including mechanics modelling and statistical analysis. Students approach problems with logic and an analytical focus, developing key critical thinking skills.

Are you an A level mathematician in the making?

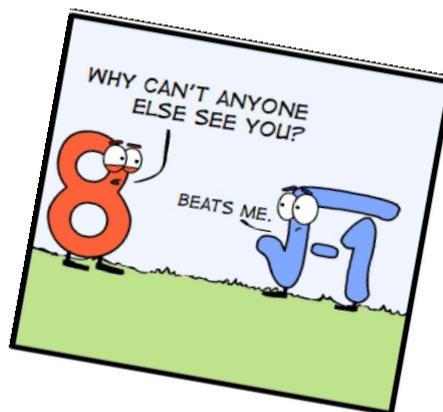
- Are you interested in Maths, Physics, Engineering or other related disciplines and enjoy problem solving?
- Do you wish to develop your ability to understand logical arguments and think analytically?
- Are you methodical and persistent when problem solving?

Course Outline

Pure A level mathematics extends fundamental mathematical skills, such as *Algebra* and *Trigonometry* and introduces new topics such as *Calculus* and *Radian Measure*. **Applied A level mathematics** includes *Statistics* and *Mechanics* modules, in which 'real world' situations are modelled mathematically.

Assessment

A-Level maths is studied here as a linear course and is assessed by examination only. At the end of the second year of study students will sit 3 papers; Two Pure mathematics papers and one Applied paper. Each paper is a two hour exam and has equal weighting towards the qualification.



Career Progression

- ✓ Degrees in **Mathematics, Statistics, Physics, Astronomy, Engineering, and Computer Science** all require A Level mathematics.
- ✓ Other degrees, such as **Medicine, Architecture, Biology, Chemistry and Social Sciences**, include a variety of mathematical content and therefore are more suitable for those with at least AS mathematics.

Complementary Subjects

- ✓ **Economics & Finance pathway:** Further Mathematics, Economics & Business
- ✓ **Science & Engineering pathway:** Further Mathematics, Physics, Chemistry & Computer Science
- ✓ English and Humanities students may choose mathematics to demonstrate their problem solving and analytical skills

Entry requirements

GCSE Mathematics: 7

What our Students say:

"Maths is a subject that I have enjoyed since year 7 and I know that studying Maths at A level will be useful for many subjects."

Divyesh Patel – Class of 2018