

Further 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.

Course Outline

The **Further Pure Mathematics** modules introduce pure mathematics topics beyond those covered by AS/A2 Mathematics, including *Complex Numbers, Matrices, Proof, Polar Coordinates* and *Differential Equations*.

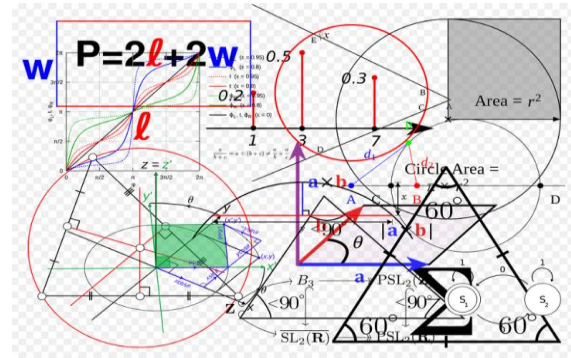
The **Decision Mathematics** modules introduce a relatively new field of business mathematics dealing with *project management* and *optimisation problems*.

The **Mechanics** and **Statistics** modules extend students' knowledge of the application modules studied in AS and A2 Mathematics.

Assessment

Both AS and A2 mathematics are assessed **by examination only**.

AS and A-Level maths are decoupled and not studied here as a linear course.



Career Progression

- ✓ A2 Further Mathematics is now a **requirement for entry to the top Mathematics degrees** and some universities will not consider applications from students without it.
- ✓ Applicants to **Engineering and Economics/Finance degrees** also gain preferential offers if they have studied further Mathematics.
- ✓ Studies have shown that upon entering employment graduates with Mathematics qualifications earn considerably more than other graduates.

Complementary Subjects

Further Mathematics must be studied alongside AS Mathematics. Also complements Physics, Chemistry and Computer Science for Engineering Careers or may be combined with Humanities or Arts subjects to demonstrate a broad range of skills.

Entry requirements

GCSE Mathematics: **8+**
Additional Maths: **Pass**

What our Students say:

"If you are passionate about exploring the world of maths then Further Maths is the perfect course for you."

Rithik Gohil – Class of 2019