F urther Maths

Further Mathematics has become an increasingly popular subject for keen and **gifted mathematicians**. Students wishing to apply for the **very best universities**, especially for courses in **Mathematics and Engineering**, will have a greater chance of gaining a good offer if they have studied Further Mathematics. Once at university, students also find that they cope much better with these courses having had some prior experience of the **extension topics** covered in Further Mathematics. Students who take Further Maths will be doing an extended curriculum to include A Levels maths also, with increased lesson time **of 8 periods per week.**

Course Outline

A-Level Mathematics:
As part of the new curriculum, students will study Pure and Applied maths. The structure of the course is such that all AS and A2 content is learnt in year 12. **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. Our exam board for A Level maths is **Edexcel.**
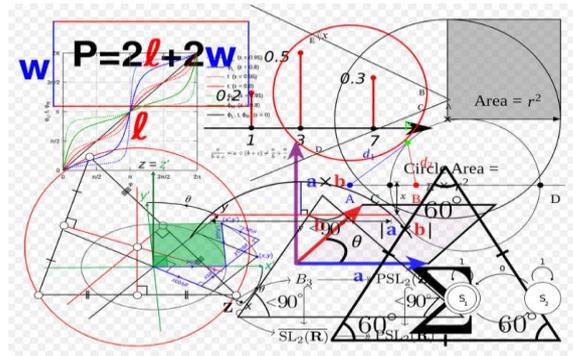
A-Level Further Mathematics:
Beginning in year 13, students will study Core Pure 1 & 2 and two optional modules – Further Pure 1 and Further Pure 2.
The **Further Pure Mathematics** modules introduce pure mathematics topics beyond those covered by AS/A2 Mathematics, including Complex Numbers, Matrices, Proof, Polar Coordinates and Differential Equations.

Assessment

Both A-Level Mathematics and Further Mathematics are **assessed by examination only** at the end of Y13. There are three two hour exams (2 Pure/ 1 Applied) for the Maths qualification and there are four 90 minute exams for Further Maths (2 core and 2 options module).

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 studies 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 compliments 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