

Further Maths



Our exam board for A Level maths is **Edexcel**.

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.

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

Assessment

A-Level Mathematics is assessed by **examination only**. As part of the new linear structure, students will only have **public examinations at the end of year 13**. There are three two hour exams (2 Pure/1 Applied) for the A2 qualification. The exams are **equally weighted** and the final grade is calculated as an average of all three examination results.

A-Level Further Mathematics is assessed by **examination only**. As part of the new linear structure, students will only have **public examinations at the end of year 13**. There are four 90 minute exams for further maths (2 core and 2 options – Further Pure 1 and 2). The exams are **equally weighted** and the final grade is calculated as an average of all three examination results.

Preparing for assessments:

You should have a **topic checklist** for each fertile question which tells you which objectives relate to different modules. You can use this as a 'tick list' when you are revising to ensure you are ready in addition to **practising full papers**, which will be marked in class and / or by your teacher. All assessment results will be recorded in your **assessment tracker** which is kept in your folder. Here is the content plan for assessments this year:

- ✓ AUTUMN 2 MOCK1: Pure (topics covered so far)
- ✓ SPRING 2 MOCK2: Pure (full paper) and Applied (topics covered so far)

Entry requirements

GCSE Maths: **8** and Additional Maths must have been studied in Year 11