

Further Mathematics

A-Level

Exam Board: **edexcel**



ENTRY REQUIREMENTS

8+

in GCSE
Maths

* If offered a provisional place on the course, students will be required to take an initial assessment in September in order to decide whether they will be suitable for A level

SUBJECT OVERVIEW

Further Maths is a very challenging course that demands a lot of students who study it. Studying A level Further Mathematics is excellent preparation for a degree in Mathematics. Many university maths departments encourage students to take Further Mathematics at A level as it introduces a wider range of pure and applied content, such as matrices and complex numbers. Students who have studied Further Mathematics often find the transition to university far more straightforward.

The course covers pure and applied mathematics with a number of optional modules covering further statistics, mechanics and decision mathematics. All students studying Further Maths must also be study A level Mathematics

| TOPICS/UNITS/MODULES | Skills Learnt |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Pure Core Mathematics + 2 of the following: | <ul style="list-style-type: none">• Problem Solving• Algebraic manipulation• Logic and reasoning |
| Further Pure Mathematics | <ul style="list-style-type: none">• Abstract and theoretical understanding |
| Further Mechanics | <ul style="list-style-type: none">• Analytical thinking• Technical communication |
| Further Statistics | <ul style="list-style-type: none">• Data analysis• Hypothesis testing and research |
| Decision Mathematics | <ul style="list-style-type: none">• Data interpretation and Forecasting• Mathematical modelling |

EXAMINATION/ASSESSMENT

50%

25%

25%

Papers 1 + 2
covering the Pure
Core Mathematics

Paper 3 & 4—a
choice of two
optional modules

Careers

- Finance and banking
- Engineering
- Data Science and Technology
- Technology and Computer Science
- Science and Healthcare
- Logistics and operations
- Architecture and design
- Government and Public Policy