

A Level Further Mathematics

Edexcel

Curriculum Leader: Mr Machin

Course Overview:

Students will need to pick A Level Mathematics to be able to do A Level Further Mathematics. Students will cover further core mathematics, further statistics and further mechanics over the two-year course. Students will develop the knowledge they have from A Level Mathematics and apply this to more difficult topics, such as matrices and complex numbers that they will not have previously seen throughout GCSE or A Level Mathematics.

Paper 1: Core Pure Mathematics 1

Paper 2: Core Pure Mathematics 2

Each paper is a 1 hour and 30 minutes written examination (25% of the qualification).

Proof, Complex numbers, Matrices, Further algebra and functions, Further calculus, Further vectors, Polar coordinates, Hyperbolic functions, Differential equations.

Paper 3: Further Mathematics Option 1

Written examination: 1 hour and 30 minutes (25% of the qualification).

Students take one of the following four options:

- A – Further Pure Mathematics 1
- B – Further Statistics 1
- C – Further Mechanics 1
- D – Decision Mathematics 1

Paper 4: Further Mathematics Option 2

Written examination: 1 hour and 30 minutes (25% of the qualification).

Students take one of the following seven options:

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|--------------------------------|----------------------------|
| A – Further Pure Mathematics 2 | B- Further Statistics 1 |
| C – Further Mechanics 1 | D – Decision Mathematics 1 |
| E – Further Statistics 2 | F – Further Mechanics 2 |
| G – Decision Mathematics 2 | |

Progression Opportunities:

Popular career choices for those with A-level maths include engineering, computing, accountancy, economics, banking, business, retail management, surveying, psychology, air traffic control, architecture, cartography, psychology and teaching.