

# Further Maths

FURTHER MATHS

AS LEVEL

## Why choose to study Further Maths?

Maths is one of the most valued and versatile qualifications available to students. A good grade is an indication of the ability to work hard, think logically and solve problems.

A Level Maths is welcomed by Medical, Accounting and Law Schools as well as University Engineering, Computing and Science Departments. Further Maths is available to high achieving, highly motivated students who enjoy the subject and fancy a challenge.

## Subject Specific Entrance Requirements

A Level Maths would require at least a Grade C from Higher GCSE.

Further Maths applicants are expected to have achieved a Grade A/A\*.

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## Resources and Facilities

We will deliver the course using a combination of textbook in house materials and, where appropriate ICT.

## Teaching and Learning Styles

Lessons will be delivered to take account of the preferred learning style of individuals as well as the class as a whole.

## Assessments

**AS Maths consists of three modules each worth 33.3%.**

FP1 is a compulsory module. The other two are optional and can be chosen from Decision, Mechanics, Statistics or FP2 or 3. (C1-4 can not be used)

### FP1

#### Unit Description

Series, Complex Numbers, Numerical Solution of Equations, Coordinate Systems, Matrix Algebra, Proof.

### FP2

#### Unit Description

Inequalities, Series, First Order Differential Equations, Second Order Differential Equations, Further Complex Numbers, Maclauring and Taylor Series.

## Calculators

Students are expected to have available a calculator with at least the following keys: +, -,  $\times$ ,  $\div$ ,  $\times^2$ ,  $\sqrt{x}$ ,  $\ln x$ ,  $e^x$ ,  $x!$ . Sine, cosine and tangent and their inverses in degrees and decimals of a degree, and in radians; memory. Calculators with a facility for symbolic algebra, differentiation and/or integration are not permitted.