

# Further Mathematics

**Examination Board: Edexcel**

**A Level in Further Mathematics: 9FM0**

## What will I learn?

- Complex Numbers
- Parametric equations
- Matrix algebra
- Coordinate geometry
- Series
- Proof by induction
- 1st order differential equations
- 2nd order differential equations
- Maclaurin and Taylor series
- Polar coordinates
- Hyperbolic functions
- Further Differentiation
- Further Integration
- Vectors

## Who is the course suited to?

Anyone who is extremely competent with algebra and has achieved at least grade 9 at GCSE.

## What is the structure of the course?

### Paper 1:

Core Pure 1 (75 marks)

### Paper 2:

Core Pure 2 (75 marks)

### Paper 3:

Option 1, one from:

- Further Pure
- Further Statistics
- Further Mechanics
- Decision Maths

### Paper 4:

Option 2, one from:

- Further Pure
- Further Statistics
- Further Mechanics
- Decision Maths

## Assessment

### A Level

Four equally weighted examinations.

## Reasons to consider doing Further Mathematics at A Level:

- You are applying for a Mathematics, Physics or Engineering degree course at a top university.
- You are a highly capable mathematician who enjoys the challenges of this subject.
- You are looking to study a broad range of mathematical topics in the future.