

# 6<sup>th</sup> Mathematics Further

## Course Level

AS/A Level

## Awarding Body

Edexcel

## Entry Requirements

Grade 8 in GCSE Mathematics

## Assessment

### AS

Paper 1 (Further Pure Mathematics 1)  
Paper 2 (Further Mathematics Option:  
Further Pure Mathematics 2, Further  
Statistics, Further Mechanics,  
Decision Mathematics)

### A level

Paper 1 (Further Pure Mathematics 1)  
Paper 2 (Further Pure Mathematics 2)  
Paper 3 (Further Mathematics Option 1:  
Further Pure Mathematics 3, Further  
Statistics 1, Further Mechanics 1,  
Decision Mathematics 1)  
Paper 4 (Further Mathematics Option 2:  
Further Pure Mathematics 4, Further  
Statistics 1, 2, Further Mechanics 1, 2,  
Decision Mathematics 1, 2)

All unit examinations are 1 hr 30 min  
in Summer of Year 13

## Course Description

Further Mathematics is a subject for those who have an aptitude in Mathematics at Advanced level. Those who intend to study Mathematics at university would find it particularly beneficial.

Further Pure Mathematics 1 contains work on Complex Numbers and Matrices, Further Pure Mathematics 2 involves Polar Coordinates and Differential Equations, Further Pure Mathematics 3 contains Further Calculus and Vectors, Further Pure Mathematics 4 contains work on Groups and Number Theory.

The Further Statistics options contain work on Statistical Distributions and Hypothesis Tests, the Further Mechanics options include Collisions and Centres of Mass, the Decision Mathematics options include Algorithms and Linear Programming.

### Special Requirements

No coursework is necessary for A level Further Mathematics.

### Career and Progression Opportunities

The objective of the course is to include a sufficient range of mathematical topics so that when you successfully complete the course you will have the necessary basis for progressing to further study in Economics, Geography, Mathematics, related subjects such as Physics or Engineering, Risk Analysis, Global Climate Modeller, Actuary, Biometrics Officer, working for the Aerospace industry or directly into employment.

### Link to Syllabus

[qualifications.pearson.com](https://www.pearson.com/qualifications)