



# AS Level / A Level Further Maths (Full-Time/Part-Time)

Also available as a Part-Time option - please select 'Click here to contact us' for more information.

The AS Level / A Level Further Maths is a Full-time Further Education course within the Sixth Form Academy (SFA). It is designed for gifted mathematicians and those who wish to pursue a career in mathematics or similar fields.

There is the option to additional modules in maths, allowing a greater depth of study, giving students a wider knowledge base. This would allow student to achieve a second AS or A level in mathematics.

This is particularly useful for students wishing to undertake a degree in Mathematics or Engineering. Further Mathematics has to be studied in addition to AS/A level mathematics. The AS level in Further Mathematics is worth 40 percent of the overall A level.

Applying for AS Levels or A Levels? Click 'Apply Now' on any ONE of the subjects you are interested in studying. Complete the online application form, where you will be asked to specify your other two choices. Then book an Interview appointment to meet the tutors and discuss your preferred choices.

## Entry Requirements

A minimum of six GCSEs at Grade C or above including English and a Grade A in GCSE Maths. Higher Tier GCSE Maths Grade A required & Grade A\* recommended. In order to study AS Further Mathematics, you must either

- be studying AS Mathematics alongside it,
- or have already completed AS Mathematics.

## Course Modules

Unit 1: Further Pure Mathematics (13.3% of A level): Proof, Complex Numbers, Matrices, Further Algebra and Functions, Further Vectors.

Unit 2: Further Statistics: (13.3% of A level): Random Variables and the Poisson Process, Continuous Probability

Coleg Afan  
Coleg Bannau Brycheiniog  
Academi Chweraeon Llandarcy  
Canolfan Ragoriaeth Adeiladwaith Maesteg  
Coleg Castell-nedd  
Coleg Y Drenewydd  
Coleg Pontardawe  
Canolfan Adeiladwaith Abertawe

Afan College  
Brecon Beacons College  
Llandarcy Academy of Sport  
Maesteg Construction Centre of Excellence  
Neath College  
Newtown College  
Pontardawe College  
Swansea Construction Centre





Distributions, Poisson and Exponential Distribution.

Unit 3: Further Mechanics: (13.3% of A level): Momentum and Impulse, Hooke's Law, Work Energy and Power, Circular Motion.

To proceed to A2 level further mathematics you are expected to achieve a grade D at AS level.

Unit 4 is compulsory, but then students can chose between Unit 5 and 6.

Unit 4: Further Pure Mathematics: (35% of A Level): Complex Numbers, Matrices, Further Calculus, Polar Coordinates, Hyperbolic Functions, Differential Equations.

Unit 5: Further Statistics: (25% of A level): Samples and Populations, Hypothesis Testing, Estimation, Statistical Distributions. Unit 6 Further Mechanics: (25% of A level): Rectilinear Motion, Momentum and Impulse, Equilibrium of Rigid bodies, Centre of Mass.

## Additional Costs

There will be additional course-related costs.

## STUDY MODE

FT

## LOCATION

Neath College - 0330 818 8100

## COURSE LENGTH

2Y

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