



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

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. A* in GCSE Mathematics Recommended A*.

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 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.

Coleg Afan	01639 648200	Afan College
Coleg Bannau Brycheiniog	01686 614400	Brecon Beacons College
Coleg Castell-nedd	01639 648000	Neath College
Coleg Y Drenewydd	01686 614200	Newtown College



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

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LOCATION

Neath College - 01639 648000

COURSE LENGTH

2 years

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