



## AS Level / A Level 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 Mathematics is a full-time Further Education course within the Sixth Form Academy (SFA). It is designed for students interested in the field of mathematics or those who wish to pursue a career as a mathematician or work in mathematics-related fields.

Mathematics plays a central and essential part in all scientific disciplines, as well as being an important subject in its own right. It is also useful as a support to many Humanities subjects such as Economics, Psychology and Geography.

The AS Mathematics syllabus includes topics from Pure Mathematics, Statistics and Mechanics including, Algebra, Co-ordinate Geometry, Calculus, Trigonometry, Kinematics, Newton’s Laws of Motion, Probability.

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. Higher/Intermediate Tier GCSE Maths Grade B & GCSE Numeracy Grade C recommended.

### Career Prospects

A level Mathematics is essential for studying, Mathematics, Physics, Engineering or Economics at University, but will be helpful with many other subjects including Chemistry, Biology and Psychology.

Career opportunities include; Accountancy, Engineering, Scientist, Actuary, Teaching, and Medicine.

### Course Modules

AS Mathematics – The AS course is made up of two compulsory modules. The AS Mathematics course represents

Coleg Afan  
Coleg Bannau Brycheiniog  
Academi Chwaraeon 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





40% of the overall A level.

## AS

Unit 1: Pure Mathematics (25% of A level): Algebra, Co-ordinate Geometry, Calculus, Trigonometry, Logarithms.

Unit 2: Applied Mathematics (15% of A Level). Mechanics: Kinematics, Forces, Newton's Laws of Motion, Vectors. Statistics: Statistical distributions, Probability, Data Presentations, and Interpretations. A2 Mathematics (Second year) – In the second year there will be a further 2 modules.

To undertake A level Mathematics you must have gained a minimum grade D in AS Mathematics.

## A2

Unit 3: Pure Mathematics (35% of A Level): Calculus, Functions, Proofs, Trigonometry, Algebra, Sequences and Series Vectors.

Unit 4: Applied Mathematics (25% of A level): Statistics: Probability, Statistical Distributions, Hypothesis Testing: Differential Equations, Numerical Methods, and Mechanics: Forces and Newtons Laws, Moments, Vectors, Differential Equations, Numerical Methods.

## Additional Costs

There will be additional course-related costs.

## STUDY MODE

FT

## LOCATION

Neath College - 0330 818 8100

## COURSE LENGTH

2Y

Coleg Afan  
Coleg Bannau Brycheiniog  
Academi Chwaraeon Llandarcy  
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