A Level Mathematics



Many career or university choices demand or benefit from an A level mathematics qualification. It teaches you to think in abstract terms and relate this to practical applications in many fields of study and endeavour. Employers value this skill. In the future, people are likely to have more than one career in more than one discipline and the transferability of high-level thinking skills makes mathematics a good choice: it says "I am adaptable". So many of today's jobs did not exist 20 years ago... You cannot necessarily future-proof careers, but with mathematics you can "future-adapt" them...

Memory Augmentation surgeon Body part-maker Quarantine enforcer Weather modification police Space tour quide Exoskeleton engineer Nano-medic

Subject specific entry requirements

In addition to the standard entry requirements, the following subject entry criteria should be met:

6 in GCSE Maths (7 preferred); 4 in GCSE English

Exam Board

Edexcel – L3 Advanced GCE in Mathematics (9MA0)

https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html

Assessment

At A level, all components are assessed by mean of three written exams.

- Paper 1 and Paper 2 may contain questions on any topics from the Pure Mathematics content.
- Paper 3 will contain questions on topics from the Statistics content in Section A and Mechanics content in Section B.
- Students must answer all guestions.
- Calculators can be used in all the assessment.

A Level – two year course		
Paper 1: Pure Maths 1 Content overview Topic 1 — Proof Topic 3 — Coordinate geometry in the (x, y) plan Topic 5 — Trigonometry Topic 7 — Differentiation Topic 9 — Numerical methods	Topic 2 — Algebra and functions e Topic 4 — Sequences and series Topic 6 — Exponentials and logarithms Topic 8 — Integration Topic 10 — Vectors	Written exam: 2 hours 33.33% of the A level 100 marks
Paper 2: Pure Maths 2 Same as paper 1		Written exam: 2 hours 33.33% of the A level 100 marks
Topic 3 — Probability Topic 5 — Statistical hypothesis testing Section B: Mechanics	ment comprises two sections: Topic 2 — Data presentation and interpretation Topic 4 — Statistical distributions Topic 7 — Kinematics	Written exam: 2 hours 33.33% of the A level Section A 50 marks Section B 50 marks Total: 100 marks
•	Topic 9 — Moments	

This course will lead to:

Careers such as Economics, Architecture, Medicine, Engineering, Accountancy, Teaching, Psychology, Environmental Studies, Computing, Physics, Biochemistry, Astronomy, Biology, Chemistry, Geology, Geography, Personnel, Forensic Science, Genetics, Telecoms, Logistics, Evo Devo - anything that needs you to think!

Maths really counts!