

Mathematics



EXAM BOARD	Edexcel
STRUCTURE OF COURSE This award is a two year A Level qualification	Pure Mathematics 1 Pure Mathematics 2 Statistics and Mechanics
ASSESSMENT	Each component is assessed by a written examination lasting 2 hours and all units carry equal weighting. Each paper is 100 marks.
CONTENT	<p>Component 1 Pure Mathematics 1 Proof, Algebra and functions, Coordinate geometry in the (x,y) plane, Sequences and series, Trigonometry, Exponentials and logarithms, Differentiation, Integration, Vectors.</p> <p>Component 2 Pure Mathematics 2 Proof, Algebra and functions, Coordinate geometry in the (x,y) plane, Sequences and series, Trigonometry, Differentiation, Integration, Numerical methods</p> <p>Component 3 Statistics and Mechanics Section A: Statistics: Statistical sampling, Data presentation and interpretation, Probability, Statistical distributions, Statistical hypothesis testing Section B: Mechanics: Quantities and units in mechanics, Kinematics, Forces and Newton's laws, Moments.</p>
POSSIBLE CAREER PATHS	Mathematics at Advanced Level is a very sought after qualification and is in fact an essential requirement for many university courses. It demonstrates that you have the ability to think logically, are numerate and can solve problems analytically. Possible careers include those in Engineering, Medicine, Actuarial Science, Financial and IT related professions.
COMPLIMENTARY SUBJECTS	Mathematics is itself a highly regarded subject but also supports the learning in several other subjects, notably the Sciences, Economics, Psychology and Geography. Some universities prefer candidates to have studied Further Mathematics so you should consider this carefully as an option if you are thinking of studying Mathematics, Engineering or Economics at tertiary level.