

MATHEMATICS

TYPE OF QUALIFICATION	GCE AS & A level
LEVEL OF ENTRY	5 A*-C passes at GCSE (At least a B grade in GCSE Maths)
METHOD OF ASSESSMENT	Exam: Year 12 and Year 13
LENGTH OF COURSE & NUMBER OF LESSONS PER CYCLE	One year AS and one year as A2 5 Lessons per week
EXPECTED STUDY EXPECTATIONS	5 hours of directed self-study minimum, alongside set homework and revision.

COURSE STRUCTURE:

Level	Unit	Title	Grade Weighting
AS level	C 1 (Exam)	'Core Mathematics 1'	33.3% AS level
AS level	C 2 (Exam)	'Core Mathematics 2'	33.3% AS level
AS level	S 1 (Exam)	'Statistics 1'	33.3% AS level
A level	C 3 (Exam)	'Core Mathematics 2'	33.3% A level
A Level	C 4 (Exam)	'Core Mathematics 2'	33.3% A level
A Level	M 1 (Exam)	'Mechanics 1'	33.3% A level

WHICH SKILLS WILL YOU ACQUIRE?

Pure Mathematics

- When studying pure mathematics at AS and A level you will be extending your knowledge of such topics as algebra and trigonometry as well as learning some brand new ideas such as calculus.

Mechanics

- When you study mechanics you will learn how to describe mathematically the motion of objects and how they respond to forces acting upon them, from cars in the street to satellites revolving around a planet. You will learn the technique of mathematical modelling; that is, of turning a complicated physical problem into a simpler one that can be analysed and solved using mathematical methods.

Statistics

- When you study statistics you will learn how to analyse and summarise numerical data in order to arrive at conclusions about it. You will extend the range of probability problems that you started for GCSE by using the new mathematical techniques studied on the pure mathematics course.

WHICH CAREER PATHWAYS EXIST AFTER STUDYING THIS SUBJECT?

- Teaching
- Accounting
- Medicine
- forensic pathology
- Finance
- Busines
- Consultancy
- IT
- Games development,
- Scientific research
- Programming
- Civil service
- Astrophysics
- Geology
- Dentistry
- Philosophy

WHICH SUBJECTS COMPLEMENT THIS COURSE?

Chemistry, Physics, Computer Science, Economics, Business Studies, Psychology