

Physics

TYPE OF QUALIFICATION	GCE AS & A level
LEVEL OF ENTRY	B in Physics (B in both core and additional, Triple Science preferred) and Mathematics. *Science unit scores will be taken into account
METHOD OF ASSESSMENT	Exam: Year 12 and Year 13
LENGTH OF COURSE & NUMBER OF LESSONS PER CYCLE EXPECTED STUDY EXPECTATIONS	One year AS and one year as A2 5 Lessons per week 5 hours of directed self-study minimum, alongside set homework and revision.

COURSE STRUCTURE:

Level	Unit	Description	Grade Weighting
AS level	Paper 1 (Exam)	70 marks of short and long answer questions on all AS content	50% AS level
AS level	Paper 2 (Exam)	Section A: 20 marks of short and long answer questions on practical skills and data analysis Section B: 20 marks of short and long answer questions from across all areas of AS content Section C: 30 multiple choice questions	50% AS level
A level	Paper 1 (Exam)	60 marks of short and long answer questions and 25 multiple choice questions on all AS content as well as A Level content from Chapter 6.1: Periodic Motion	34% A level
A level	Paper 2 (Exam)	60 marks of short and long answer questions and 25 multiple choice questions on A Level content from Chapter 6.2 (Thermal Physics), Chapter 7 (Fields) and Chapter 8 (Nuclear Physics)	34% A level
A Level	Paper 3 (Exam)	45 marks of short and long answer questions on practical experiments and data analysis and 35 marks of short and long answer questions on the optional topic	32% A level

WHICH SKILLS WILL YOU ACQUIRE?

- An understanding of how ideas develop and evolve in physics, especially regarding the fundamental properties of matter, nuclear power, electromagnetic radiation and quantum phenomena
- A deeper understanding of forces, energy and momentum with an in depth study of material properties and tensile strength
- Advanced study of one of the great unifying ideas in Physics; Fields. Ideas on gravitation, electrostatics and magnetic field theory are all developed to emphasise this unification

WHICH CAREER PATHWAYS EXIST AFTER STUDYING THIS SUBJECT? According to the Institute of Physics (2012), the top sectors that physics graduates enter after graduation are:

- 1) Financial and advisory services
- 2) Education and teaching
- 3) Scientific and technical industry
- 4) Government
- 5) Energy & Environment
- 6) Electronics, IT & software

WHICH SUBJECTS COMPLEMENT THIS COURSE?

Mathematics, Economics, Chemistry, Geography, Sociology, Computing, Electronics