

Physics [Level 3: A2]

OCR A

INTRODUCTION:

Physics is the study of matter, energy, and the interaction between them. Physics is about asking fundamental questions and trying to answer them by observing and experimenting.

Physicists ask big questions like; how did the Universe begin?

How will the Universe change in the future? What are the building blocks of matter?

ENTRY REQUIREMENTS / SUITABILITY:

GCSE Physics grade 6 or Combined Science grade 6/6. Grade 6 or above in Mathematics is also essential.

Physics course is ideal for anyone who is interested in why the universe is the way that it is and how the universe works from the smallest subatomic particles to the furthest reaches of space. Students should not be content with the usual "because it does" sort of answers. Instead they should enjoy thinking for themselves and analysing complex issues.

CONTENT:

Year 12:

Forces and motion Work, energy and power, Materials, Newton's laws of motion, Electrical circuits, Waves, Quantum Physics

Year 13:

Thermal physics, Nuclear Physics, Medical Imaging, Electrical and magnetic fields, Astrophysics

ASSESSMENT:

Paper 1: External written exam (weighting: 37%)
Modelling Physics

Paper 2: External written exam (weighting 37%)
Exploring Physics

Paper 3: External written exam
Unified Physics (weighting: 26%)

Length of exam: 135 mins

Length of exam: 135 mins

Length of exam: 90 mins

LEADS TO:

It's not just rocket science:

Physics is the route to so many careers, from predicting climate change to designing computer games. Students take up university courses in such fields of study as Engineering, Architecture, Materials Technology, Design & Production, Finance, Telecommunications, Medicine, Astronomy & Astrophysics, Meteorology, Archaeology and Education.

Graduates in STEM can expect to receive amongst the highest salaries of all new recruits.

Your practical skills will also be assessed over the course of year 12 and 13.