

Physics

PHYSICS

OCR

Why choose to study Physics?

Among the many benefits, this specification is designed to encourage:

- An enthusiasm for Physics
- Development of practical skills alongside understanding of concepts and principles.
- An appropriate and relevant foundation of knowledge and skills for the study of Physics and Engineering in Higher Education.

A Level Physics builds on concepts and skills that will have been developed in the new GCSE Science specifications. It presents physics as exciting, relevant and challenging. The course presents essential principles in contexts that we know students find interesting.

Subject Specific Entrance Requirements

Students must have two Grade C or higher in Science, and C or higher in English and Maths.

Resources and Facilities

Our department has extensive Science ICT facilities for practical analysis, research and presentations, as well as a dedicated Physics teacher and engineering fellow from Manchester University.

Teaching and Learning Styles

Teaching and Learning will be through a range of practical analysis, ICT, data analysis, research and independent study.

Assessment

The AS specification has 3 Units:

- Unit 1: Mechanics
- Unit 2: Electrons, Waves and Photons
- Unit 3: Practical Skills in Physics 1

The A2 specification has 3 units:

- Unit 4: The Newtonian World
- Unit 5: Fields, Particles and Frontiers of Physics
- Unit 6: Practical Skills in Physics 2

These units are assessed by external examinations and some internal assessment.

Progression Opportunities

This course offers opportunities for progression in Higher Education in a range of Physics fields, for example Engineering, Acoustics, Astronomy, Electronics, Medical Physics and Nanotechnology, to name a few.

Student Views

“It’s very interesting, don’t really know what else to say. It’s good”.