

A Level Physics OCR A

Find out more



LINEAR

Why study Physics?

Physics is the study of how the universe works at the most basic level. It is an awe-inspiring subject that explains how the universe operates from the subatomic particles made in particle accelerators to the creation of the universe and the interaction of galaxies. This course is ideal for any student who wishes to find out why the sky is blue and why the earth goes around.

About the course

Physics is a challenging yet interesting course to study that requires intelligence and a high work ethic. This is recognised by both employers and higher education establishments of all course types. A career in Physics offers a huge variety of opportunities in a wide range of different fields. It is useful in opening pathways into other careers such as engineering, medical physics, finance, programming and many more options beyond the study of pure physics research.

Year 12

In Year 12 students study the following modules

Module 1 – Development of practical skills in Physics
Module 2 – Foundations of Physics
Module 3 – Forces and motion
Module 4 – Electrons, waves, and photons

Year 13

In Year 13 in addition to the above modules, A2 Physics students will also study
Module 5 – Newtonian World and Astrophysics
Module 6 – Particles and medical Physics

Assessment

Year 13 - Students will sit a total of three papers in their final year

A Level Paper 1 – Modelling Physics
A Level paper 2 – Exploring Physics
A Level paper 3 – Unified Physics

A Level Practical Endorsement – teacher assessed practical skill will be tested throughout external assessment papers.

Entry criteria

Students need a grade 6 in GCSE Double Science (combined) or Triple Science. We require that students have achieved a minimum of a grade 6 in all Physics external exam modules and a grade 6 in GCSE Maths.

Outside the classroom

Students must put in several hours each week outside of the classroom to consolidate their learning. We ask for students to put in two hours of independent study for every hour of lesson time. Some aspects of the course require independent learning and research. Homework in the form of worksheets, online task and FOT sheets are set regularly, and students will be given individual targets and feedback

which they must respond to. All deadlines must be met, and work must always be completed. Students must produce quality notes and revision material in their own time and are expected to regularly carry out wider reading around their subject.

