

Physics



Physics Staff

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Our students say...

"We are currently studying mechanics and I am already fascinated by how we can accurately predict the motion of any object around us."

"Physics is a really tough subject but my teacher makes it all so accessible"

"I've never worked so hard for a subject in my life but also have never enjoyed working this hard so much"

"The lessons are great and help me to access some tough concepts, the practicals are great too as they help me to understand the theory"

Current year 12 students

Our results 2017...

38% A* - B
46% A* - C
92% A* - E

The Physics department scored an **ALPS grade of 5** this year, putting us in the top 50% of ALL schools in the country.

Entry Requirements

Grades 66 in Double Science.
Grade 666 in Triple Science
Grade 6 in Mathematics. Grade 5 in English

Course Content — A-Level Qualification

Module 1 – Development of practical skills in physics

Module 2 – Foundations of physics

Module 3 – Forces and Motion

Module 4 – Electrons, waves and photons

Module 5 – Newtonian World and astrophysics

Module 6 – Particles and medical physics

This year is the third year of the A level changes. The A level and the AS level qualifications are now separate entities and exams are terminal ie for A level, students will sit all of their exams at the end of 2 years.

The practical endorsement is now a separate qualification and no longer contributes towards the A level grade. There is no practical endorsement for the AS course.

Method of assessment

A Level Paper 1 Modules 1,2,3,5 (2.25 Hours)

- 15 marks Multiple choice
- 85 marks long response

A Level Paper 2- Modules 1,2,4,6 (2.25 hr exam)

- 15 marks Multiple choice
- 85 marks long response

A Level Paper 3- Modules 1-6 (1.5Hr Exam)

- 70 Marks long response

PRACTICAL ENDORSEMENT SEPARATE QUALIFICATION

Key Skills

Students develop their interest in and enthusiasm for Physics, including developing an interest in further study and careers in Physics.

They will appreciate how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society.

They develop and demonstrate a deeper appreciation of the skills, knowledge and understanding of *HowScience Works*.

In addition to this students develop essential knowledge and understanding of different areas of Physics and how they relate to each other.

If you have an interest in how the world around you works, how mobile phones use quantum physics, what the scientists at CERN are up to, what electricity is and how we can model the entire universe using equations then Physics is the subject for you. Physics is the Science that explains the world around us better than any other and gives access to the broadest range of Science, Mathematics and Engineering degrees available.

Extra-curricular

The Science department provides the following additional activities and support to students:

- A Year 12 STEM club for all students incorporating extra practical activities, external speakers and trips to UCL lectures.
- A Year 12/13 Gifted Scientist club for preparation for entrance exams in physics, computer science, engineering and materials courses at Oxbridge and Imperial.
- A Year 12/13 Medical Sciences club to guide students in making medical applications (BMAT/UKCAT) and learning about related disciplines.
- Dedicated revision sessions in year 13 to prepare students for the more demanding new linear exams.