Physics A Level



HEAD OF SUBJECT

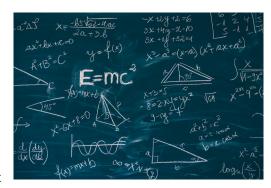
Benedict Douglas-Scott

EXAM BOARD OCR

COURSE DESCRIPTION

A Level Physics at The Grey Coat Hospital covers a broad range of study including Mechanics, Quantum physics, Astrophysics, Nuclear physics and Electromagnetism. A full overview of the content and assessment of the course is provided overleaf.

Studying physics will offer you a unique understanding of the fundamentals of our universe: the forces at play and the laws that hold the order of the cosmos together.



A Level Physics is a highly respected course and can open doors to a huge range of university courses and future careers.

SKILLS REQUIRED

- Ability to grasp abstract concepts and relationships
- Ability to problem solve and think logically;
- Ability to recall information and apply subject understanding to unfamiliar contexts;
- Ability to work with mathematical equations;
- Ability to use a wide range of equipment and techniques, both in the laboratory and in the field;
- Ability to apply investigative techniques, record results accurately and display them in a graphical format;
- Ability to identify and explain trends present in data;
- Ability to undertake independent research;

Greycoat Place Westminster London SW1P 2DY www.gch.org.uk

PROGRAMME OF STUDY

Modelling Physics

Development of practica skills in physics (M1) Foundations in physics (M2) Forces and motion (M3) Newtonian world and

Exam paper (100 marks 2 hours 15 minutes

37% of total A Level

Exploring Physics

skills in physics (M1)
Foundations in physics (M2)
Electrons, waves and photons (M4)
Particles and medical physics (M6)

Exam paper (100 marks)

2 hours 15 minutes

37% of total A Level

Unified Physics

All modules (M1-M6) are assessed

1 hours 30 minutes

26% of total A Level

EXAMINATION RESULTS

In 2025, students achieved 73.7% A*–C grades which compares to the 71.3% nationally. Across the 2025 physics cohort, 95% of students have progressed onto a STEM-related course at university. Of these students, 64% are now studying a physics-related course, including Astrophysics, Aerospace Engineering, Civil and Mechanical Engineering, Theoretical Physics and Planetary Exploration at a range of universities, including Imperial, Bristol, Edinburgh and Sheffield.

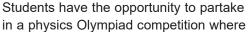
PRACTICAL ENDORSEMENT

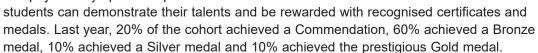
Students will complete a minimum of 12 practical investigations, including investigating motion, waves, electrical properties, ionising radiation and quantum effects.

Practical skills are assessed in every examination.

ENRICHMENT ACTIVITIES

We offer a range of trips, including a Year 12 trip to the Physics is Action conference, a visit to the Royal Observatory in Greenwich and talks and virtual tours from CERN and Culham Centre for Fusion Energy. We are currently arranging a trip to CERN for this year's cohort.





We also have a range of speakers giving lectures for the students at Grey Coat, both in our school and in Westminster school, with whom our department collaborates extensively.



Studying A Level Physics opens doors to a huge range of future courses and careers and is counted as a 'facilitating' subject by the Russell Group of universities.

For many universities, A Level Physics is a pre-requisite for studying Engineering or Medicine. Students go on to study Automotive engineering, Computer Science, Electronic Engineering, Mathematics, Mechanical engineering and Physics.

Our students have also been awarded positions on a wider range of degree courses, such as Biology, Chemistry and Chemical engineering.

