QEHS SIXTH FORM

PHYSICS

Cambridge OCR A Level

ABOUT THE COURSE

By studying Physics, you will open the door to a wide range of exciting and rewarding careers. As well as exploring how the universe works, you will develop highly valued skills including problem-solving, analytical thinking, mathematical reasoning and the ability to apply knowledge to unfamiliar situations.

Physics A Level is one of the most highly regarded qualifications for progression to university and supports entry to a wide variety of degree courses. Throughout the course, theoretical concepts are reinforced through practical investigations, giving students both a strong academic foundation and valuable hands-on experience.

Students need a mature attitude, the ability to study independently, and an appetite for reading, research and problem-solving. A Level Physics contains a significant amount of new content and requires students to develop advanced practical, mathematical and analytical skills. The ability to learn and apply key terminology, produce extended written responses, solve multi-step calculations, and tackle complex problems using knowledge from different areas of the course is essential. Development of practical skills; Foundations of Physics; Forces and Motion; Electrons, Waves and Photons; Newtonian World and Astrophysics; and Particles and Medical Physics. Students also complete a minimum of 12 required practical activities to develop and demonstrate practical competence, with practical skills assessed throughout the course.

ENTRY REQUIREMENTS

QEHS Sixth Form Admissions Criteria: A minimum of **36 points** across the best GCSE grades
Subject Entry Requirement: Grade 6 in Physics and Maths or 6,6 in Combined Science.

CAREERS

Highly respected by universities and employers, it provides a pathway to degrees and careers in Physics, Engineering, Medicine, Computing and others. To study Physics or Engineering at university will typically need both A Level Mathematics and A Level Physics.

QEHS
SIXTH FORM

Alumni Spotlight



Alfie Cody

A former QEHS student's experience

QEHS Sixth Form gave me the opportunity to explore my interest in Physics in real depth. The combination of inspiring teaching, challenging content and hands-on practical work helped me develop a genuine understanding of the subject and the confidence to take my studies further than I thought possible

Studied at QEHS: 2017 - 2024

Subjects: Maths, Physics, Law and EPQ

Next steps: Aerospace Engineering MSc

University of Sheffield