

# PHYSICS A-LEVEL

**EXAM BOARD:** OCR

## COURSE DESCRIPTION:

Physics is an exciting and challenging course, developed to give students a thorough understanding into the physical concepts of today's changing world. This is a highly recognised course by universities, because it encompasses manipulative, theoretical, numerical, ICT and problem solving skills.

It will help you to develop skills such as accuracy and precision, objectivity, enquiry, initiative and insight. It will help you to appreciate the contribution of Physics to society and take an informed interest in scientific matters. It will teach you to apply knowledge, principles and concepts from different areas of the subject.

Physics is essential for the study of Classical Physics, Design and Engineering, Space Exploration and Mechanical Engineering, to name a few.

As students progress through the course, they'll build on their knowledge of the laws of physics, applying their understanding to areas from sub atomic particles to the entire Universe.

## COURSE CONTENT:

Students will study the following topics:

- Development of Practical Physics
- Foundations of Physics
- Forces and Motion
- Electrons, Waves and Photons.
- Newtonian World and Astrophysics
- Particles and Medical Physics

## ASSESSMENT:

- **Modelling Physics**  
37% of total A-Level. Written examination of 2 hours 15 minutes. Assesses content from modules 1, 2, 3 and 5.
- **Exploring Physics**  
37% of total A-Level. Written examination of 2 hours 15 minutes. Assesses content from modules 1, 2, 4 and 6.
- **Unified Physics**  
26% of total A-Level. Written assessment. Assesses content from all modules 1-6.
- **Practical endorsement in Physics**  
Non exam assessment.

## FUTURE OPPORTUNITIES:

By encouraging a logical way of analysing and understanding the world about us, it forms an excellent precursor to going directly into employment, or to entering Higher Education for further study of subjects such as Physics, Engineering, Dentistry, Medicine, Forensics, Electronics, Mathematics, Law, Computing, Aeronautics, Architecture, Astrophysics, Meteorology and Nuclear Medicine.

## ENTRY REQUIREMENTS:

A 66 or above in GCSE Science, and a Grade 6 in GCSE Maths. For triple award students one 6 must be in the subject to be studied at A-Level.

