

# A Level Physics



Physics is undergoing a renaissance in terms of its popular appeal at present. That's entirely appropriate for a subject that builds on the experimental curiosity that transformed medieval culture into something like the way of life we know today.

Da Vinci studied perspective and ballistics – you will study the wave/particle theory of light and the dynamics of projectile motion. Italian artists might have drawn helicopter machines but you will study the changes in momentum and the rotational forces that actually allow them to work. Electricity is central to our lives and you will study how increasingly clever circuits work and how electrons can be excited from the building blocks of matter in the first place.

We don't have the space here to expand on how you will get to grips with atom smashing but if you know anything at all about the huge ambitions of the Large Hadron Collider, then you will, we hope, be eager to make some space in your head to find out more.

## Subject specific entry requirements

In addition to the standard entry requirements, the following subject entry criteria should be met:

- 6 in GCSE Physics, or double 6 if combined science; 5 in GCSE English; 5 in GCSE Maths

## Exam Board

**Pearson EDEXCEL Physics (9PH0)**

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/physics-2015.html>

## Assessment

| <b>A Level – two year course.</b>   |   |
|---|---|
| Content is split into thirteen teaching modules:  |   |
| Module 1 – Working as a Physicist   | Module 2 – Mechanics                    |
| Module 3 – Electric Circuits  | Module 4 – Materials                    |
| Module 5 – Waves and the Particle Nature of Light   | Module 6 – Further Mechanics            |
| Module 7 – Electric and Magnetic Fields   | Module 8 – Nuclear and Particle Physics |
| Module 9 – Thermodynamics   | Module 10 – Space                       |
| Module 11 – Nuclear Radiation   | Module 12 – Gravitational Fields        |
| Module 13 – Oscillations  |   |
| <b>Examination 1:</b> Advanced Physics I: 1 hour 45 mins written exam, 90 marks                           | 30% of A Level                          |
| <b>Examination 2:</b> Advanced Physics II: 1 hour 45 mins written exam, 90 marks                          | 30% of A Level                          |
| <b>Examination 3:</b> General and Practical Principles in Physics 2 hours 45 mins written exam, 120 marks | 40% of A Level                          |
| Practical endorsement in Physics Non-exam assessment  | Coursework Reported Separately          |

## This course will lead to:

Physics graduates can do almost anything! They regularly get jobs in research, engineering, as managers in industry or the public sector, and more. A-level Physics is required for subjects such as Engineering or Physics, and is 'preferred' by many universities

*"I love Physics so much, I'm going to study it at university. Finding out how the universe is put together is awesome".*

*Zoe Harrison*

