



# PHYSICS

**QUALIFICATION** AS Level Physics  
A Level Physics

**Examination Board** OCR A

## **What do I need to know or be able to do before taking this course?**

You will have either :

- **Studied GCSE Trilogy Science and achieved grade 7-7.**
- **Studied GCSE Biology and achieved grade 7.**

You will also need grade 6 in GCSE maths and English and be taking A or AS level maths.

## **What will I learn on this AS/ A Level course?**

This course flexible approach where the specification is divided into topics, each covering different key concepts of physics. As you progress through the course, you'll build on their knowledge of the laws of physics, applying you're understanding to areas from sub-atomic particles to the entire universe.

## **What kind of student is this course suitable for?**

Physics is crucial to understanding the world around us, the world inside us, and the world beyond us. It is the most basic and fundamental science. Physics challenges our imaginations with concepts like relativity and string theory, and it leads to great discoveries, like computers and lasers, that lead to technologies which change our lives—from healing joints, to curing cancer, to developing sustainable energy solutions. If you have a passion for understanding how things work and enjoy scientific experiments and mathematics, then you should study physics.

## **What is covered on the AS and A level course?**

Physics A content is split into six teaching modules: Modules 1 to 4 constitute the stand-alone AS Level qualification; Modules 1 to 6, combined with the Practical Endorsement, constitute the full A Level. The modules can be summarised as:

Module 1: Development of practical skills.

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.

At AS Level:

Papers 1 and 2 can assess any content from Modules 1 to 4.

At A Level:

Paper 1 assesses content from Modules 1, 2, 3 and 5

Paper 2 assesses content from Modules 1, 2, 4 and 6 plus any material appropriately flagged within the specification from Modules 3 and 5

Paper 3 assesses content from Modules 1 to 6.

What could I go on to do at the end of my course?

There are a number of career options available to scientists.

There are a number of excellent webpages which give further details about career paths and applying to university.

**<https://nationalcareersservice.direct.gov.uk/advice/planning/jobfamily/Pages/scienceandresearch.aspx>**