

<https://www.ocr.org.uk/qualifications/as-and-a-level/physics-a-h156-h556-from-2015/>

## Why Physics?

This exciting course provides insights into how the universe works. You will build on concepts covered in GCSE but in more depth and learn how these are applied in everyday and technological settings.

The course embraces six modules:

1. Development of practical skills
2. Foundations of physics
3. Forces and motion
4. Electrons, waves and photons
5. Newtonian world and astrophysics and
6. Particles and medical physics.

A fascinating and complex area, ideally suited to anyone wanting to challenge themselves.

## Assessment

35% - Paper 1 - Modelling Physics

35% - Paper 2 - Exploring Physics

30% - Paper 3 - Unified Physics

Practical endorsement assessed during lessons (pass/fail)

## Recommended Reading

A Level Physics A for OCR Student Book

OCR A Level Physics Student Guide: Practical Physics

OCR A Level Physics A Revision Guide

New A Level Physics: OCR Year 1 & 2 Complete Revision and Practice with Online Edition

<https://www.kerboodle.com>

## Recommended Entry Requirements

Grade 6 GCSE Physics or Grade 6-6 GCSE Combined or Triple Science

Grade 6 GCSE Mathematics

Students who have studied Combined Science must complete additional preparatory work over the summer holidays.

## Future Pathways

University degrees in almost any course.

Apprenticeships and careers in all branches of Engineering, Research, Medicine, Veterinary Science and Astronomy; employers value the analytical and logical mind of the physicist.

## Complementary A Levels

Maths, Further Maths, Biology, Chemistry

## Extra & Super Curricular

Help run GCSE STEM Club and apply your knowledge and leadership skills to some exciting projects and competitions across the curriculum. Trips may include Laboratory Days at Bath University, Science Live with Prof Brian Cox in London and the RUH in Bath to look into the application of physics in medicine.

An amazing annual trip to Geneva Switzerland in July to the CERN Hadron Collider, the world's largest particle physics laboratory.

*“I didn’t expect to find the course so engaging. I have even structured my EPQ so that I can learn even more!”*