



# A Level Physics



## Why study Physics?

Physics is the study of the Universe around us. We seek to describe how it behaves on the grandest of scales spanning the whole Universe, and to describe the most minute and mysterious quantum worlds, as well as everything in between.

Exam Board:  
**OCR**

## Overview of course content

### A Level (specification code: H556)

| Examination  | % of A Level |
|--|--------------|
| <b>Modelling Physics</b><br><br>(Assesses content from modules 1, 2, 3 and 5)<br><br>Exam duration: 2 hours 15 minutes (100 marks) | 37%          |
| <b>Exploring Physics</b><br><br>(Assesses content from modules 1, 2, 4 and 6)<br><br>Exam duration: 2 hours 15 minutes (100 marks) | 37%          |
| <b>Unified Physics</b><br><br>(Assesses content from all modules)<br><br>Exam duration: 1 hour 30 minutes (70 marks)               | 26%          |

### Content Studied

Students will study six modules during this course. These are divided into the following key topics:

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

### Additional Reading

- 'Brief Answers to the Big Questions' *Stephen Hawking*
- 'About Time' *Phil Davies*
- 'Miss Leavitt's Stars' *George Johnson*
- 'Surely You're Joking Mr Feynman' *Richard Feynman*



### Careers/Future Opportunities

Physics is a gateway to anything that requires mathematical and analytical skills, allowing further study at university on any scientific course, notably subjects such as engineering, computer science and medicine. It is highly prized by employers in many fields as it develops problem-solving skills.

If you have any questions, please contact:  
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