



## PHYSICS - Exam board studied: OCR PHYSICS A

Students are strongly advised to take A-Level Mathematics (Mechanics) with A-Level Physics.

### COURSE DETAILS:

Physics is the study of the natural world around us. It is about understanding the laws and properties of matter and energy. The content of the course is chosen to provide a balanced and coherent study of the subject. There are regular internal assessments by means of end of topic tests and thorough revision using past papers in preparation for module examinations.

For AS Physics:

- Motion, Forces, Work and Energy
- Materials
- Electrical circuits
- Wave Behaviour and Quantum Physics
- Practical Skills

### For Advanced level Physics:

- Momentum and Circular Motion
- Fields, Electromagnetism and Oscillations
- Thermal Physics
- Nuclear Physics and Fundamental Particles
- The Big Bang Theory

### ASSESSMENT:

A Level: Paper 1, Paper 2 and Paper 3: all written papers. Practical Endorsement for Physics (non-examined assessment)

Links to exam board specification and exam materials:

Specification: <https://www.ocr.org.uk/Images/171726-specification-accredited-a-level-gce-physics-a-h556.pdf>

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

### QUALITIES AND COMMITMENT EXPECTED FROM THE STUDENT:

- A logical and numerate way of thinking
- Good writing skills to communicate unusual ideas in clear English
- An interest in the behaviour of the physical world around you
- The ability to think and contribute to lessons
- A wish to 'read around' the subject

### THE FUTURE:

Gaining physics qualifications can lead to a wide range of careers in a number of fields. Many Universities link physics with other subjects as