Physics

A Level

Physics deals with questions about the fundamental nature of our Universe. How do matter and energy behave within it? How can we harness both to our greatest advantage? The application of physics principles can be used to help solve some of the most pressing problems of our time such as how we can meet the ever increasing demand for energy?

Course Overview

Paper 1

Working as a physicist
Mechanics
Electric circuits
Material
Waves
Particle nature of light

Paper 2

Further mechanics
Gravitational, electric and magnetic fields
Nuclear and particle physics
Nuclear radiation
Thermodynamics
Space
Oscillations

How will I learn?

Practical work, seminars; discussion; independent research; self and peer assessment; presentations; display work and independent investigations.

Where can I go after the course?

Careers: Astronomy; Medicine; Veterinary Science; Engineering and Architecture, Finance, Cyber Security, Software Design.
Further Education: Physics; Engineering; Architecture. Aeronautics, Astrophysics.

Entry Requirements

Standard 6th Form entry requirements. Students should preferably have a grade 7 (or above) in the associated GCSE single science. Students who have a GCSE Combined Science qualification should have a grade 77 (or above), although those withe) high grade 6's will be considered.

Assessment at the end of Year 2

Paper 1: 1 hr 45 mins 90 marks (30%)
Paper 2: 1 hr 45 mins 90 marks (30%)
Paper 3: General and Practical Physics. Tests knowledge of all topics.
2 hrs 30 mins 120 marks (40%)

Exam Board

Edexcel