



PHYSICS

The study of Physics seeks to answer fundamental questions about the nature of the universe: how it began, how it will end, and the central role played by energy in all its varied forms.

Sixth Formers intending to study A-level Physics should have a good grade in GCSE Physics or in Combined Science. There should be ability in Mathematics but it is not absolutely necessary to study A-level Mathematics in order to be successful in A-level Physics. Nevertheless, students who do study A-level Mathematics will find that they are at a significant advantage due to the overlap of the two subjects.

THE COURSE

The AQA course will be followed.

Part 1 consists of the study of: Measurements and their Errors, Particles and Radiation, Waves, Mechanics and Energy and Electricity.

Part 2 consists of the study of: Further Mechanics, Thermal Physics, Fields, Nuclear Physics and Special Relativity. Some students will be able to substitute the study of Astrophysics, Medical Physics, Engineering or Electronics for the study of Special Relativity. Practical skills will be assessed by a written examination that forms 18% of the overall assessment. In addition, the practical work of students will be monitored by their teacher and if successful, they will receive a practical endorsement which will be recorded on their examination certificate alongside their final grade.

CAREERS

An A-level Physics course could lead to careers in:

Materials Science

Research

Meteorology

Engineering

Nuclear Power

The Space Industry

Construction

Medicine

The Armed Forces

Business and Finance

The Energy Industry