

AS / A LEVEL PHYSICS

Entry requirements - 5 A-C at GCSE. At least double B in Additional Science, double A in Applied Science and at least a C in Mathematics.

The Physics A Level course has been designed to provide a seamless transition for students from their previous studies. It develops further interest and enthusiasm in the subject and aims to introduce students to new and exciting areas of physics.

AS Examinations

Unit 1—Particles, Quantum Phenomena and Electricity (Written Examination)

This module involves two contrasting topics in physics: particle physics and electricity.

Unit 2—Mechanics, Materials and Waves (Written Examination)

This module is about the principles and applications of mechanics, materials and waves.

Unit 3—Investigative and Practical Skills in AS Physics

Students should carry out experimental and investigative activities in order to develop their practical skills.

A2 Examinations

Unit 4—Fields and Further Mechanics (Written Examination)

This section advances the study of momentum and introduces circular and oscillatory motion and covers gravitation. Electric and magnetic fields are covered, together with basic electromagnetic induction.

Unit 5—One of Units PHA5A, PHA5B, PHA5C PHA5D (Written Examination)

The first part of Section A 'Nuclear and Thermal Physics' looks at the characteristics of the nucleus, the properties of unstable nuclei and how energy is obtained from the nucleus.

Section B offers an opportunity to study one of the following optional topics to gain deeper understanding and awareness of a selective branch of physics:

A– Astrophysics

B– Medical Physics

C– Applied Physics

D– Turning Points in Physics

Unit 6—Investigative and Practical Skills in A2 Physics

Students should carry out experimental and investigative activities in order to develop their practical skills.