

How long is the course?

2 year course– A Level.

Who is the course for?

This course will suit you if you are enthusiastic and interested in Physics or have an interest in further study and careers in Physics or related areas. In this course you will be able to develop essential knowledge and understanding of different areas of Physics and how they relate to each other, the economy and society.

How will I be assessed?

Exams will be sat at the end of year 2 and will cover theory and practical skills of physics taught across modules 1 to 6 and are a combination of multiple choice, structured and extended response questions.

Paper 1: Modelling Physics – assessing content from Modules 1, 2, 3 and 5

Paper 2: Exploring Physics - assessing the content from Module 1, 2, 4 and 6

Paper 3: Unified Physics - assessing content from Modules 1 to 6.

What could I do after the course?

This course provides natural progression onto Physics based university courses, like mechanical engineering, electrical and electronic engineering. More and more universities now have A Level Physics as a requirement for studying Medicine.

What else do I need to know?

You will take both theoretical and practical lessons, where you will participate in discussions and debates, demonstrate application of number, ICT skills, working with others, analysis and problem solving skills. You will be required to do independent study and research.

What will I be studying?

A Level consists of the following 6 modules which will develop your knowledge, skills and expertise:

- 1- Development of practical skills - Skills of planning, implementing, analysis and evaluation
- 2- Foundations of physics - Physical quantities and units, Scalars and vectors & Measurements in Physics
- 3- Forces and motion - Motion, Forces in action, Work, energy and power, Materials & Newton's laws of motion and momentum
- 4- Electrons, waves, and photons - Charge and current, Energy, power and resistance, Electrical circuits, Waves and Quantum Physics
- 5- Newtonian world and astrophysics - Thermal physics, Circular motion, Oscillations, Gravitational fields and Astrophysics
- 6- Particles and medical physics - Capacitors, Electric fields, Electromagnetism, Nuclear and particle physics & Medical imaging

Exam Board: OCR

Contact Name: Dr A Jasper

