



A Level

Physics

What Entry Requirements Do I Need?

The normal Sixth Form entry requirements including at least GCSE Grade 6 in Mathematics.

How Will I Be Assessed?

Assessment is broken down into 3 module examinations which are taken at the end of the second year of study. In addition, you will undertake a minimum of 12 experiments during the course, which are considered to be required practicals. Questions in exam papers will test your knowledge and understanding of practical work as well as physical theory. You will be awarded both an A Level grade based on your exams performance and a 'pass' or 'fail' (Practical Endorsement) for practical work in lessons.

What Will I Learn on This Course?

Throughout the Physics course you will develop:

- Your ability to learn independently
- Your experimental and investigative skills
- Your research communication and IT skills
- Your mathematical skills

You will also learn lots of new and exciting Physics covered in the following 6 units:

1. Mechanics
2. Electrons, Waves and Photons
3. Practical Skills in Physics 1
4. The Newtonian World
5. Fields, Particles and Frontiers of Physics
6. Practical Skills in Physics 2

Why Study A Level Physics?

A level Physics gives you the opportunity to explore the phenomena of the universe and to look at theories that explain what is observed. This subject combines practical skills with theoretical ideas to develop descriptions of the physical universe. You will learn about everything from kinematics to cosmology and many recent developments in fascinating topics, such as particle physics. If you are interested in the limits of space, the beginning of time and everything in between this is the subject for you. Physics is more than a subject – it trains your brain to think beyond boundaries. This course is therefore ideally suited to those looking for a better understanding of the world around them, how it functions and how to tackle problems. Students taking Physics at A Level also need to have a sound grasp of mathematics.

Where Will an A Level In Physics Lead Me?

Physics is a highly respected A level. The course is aimed at those wishing to go into Higher Education to study Physics-related courses including Engineering, Computing, Geography, Geology and all other Science. In addition, according to latest research, Physics opens doors to many occupations and the potential for a high income. A good grade in A level Physics demonstrates to an employer that you have analytical and mathematical skills that you can apply to real life situations. There are many possible career paths that it will create for you, for example: Engineering, Medicine, Forensic Science, Astronomy, Cosmology, Electronics, Power generation, Finance and many more.