

A Level Physics

Course introduction

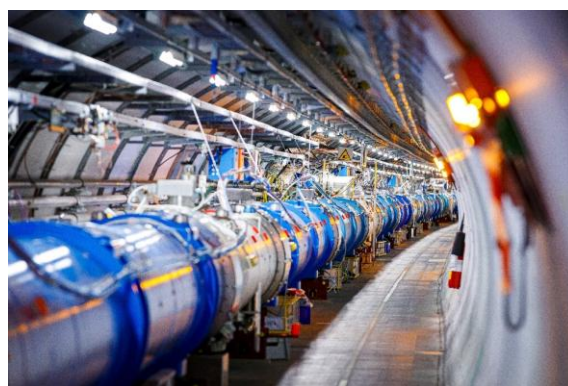
Physics seeks to explain how the universe works — from the tiniest particles to the vastness of space. Throughout the A Level Physics course, students develop a deep understanding of the fundamental principles that underpin science and technology, including mechanics, electricity, waves, quantum phenomena, and the laws of motion.

Practical work is central to the course, with students developing experimental skills and scientific reasoning through hands-on investigations. The course also explores the real-world applications of physics — from medical imaging to astrophysics — helping students connect theory to cutting-edge discoveries and modern engineering.

Exam board: AQA

Course Content

- 1 Measurements and their Errors
- 2 Particles and Radiation
- 3 Waves
- 4 Mechanics and Materials
- 5 Electricity
- 6 Mechanics and Thermal Physics
- 7 Fields and their consequences
- 8 Nuclear Physics
- 9 Astrophysics



The Large Hadron Collider at CERN in Geneva, Switzerland: destination for a potential residential visit (numbers permitting).

Where does it lead?

An A Level in Physics opens doors to an incredible range of opportunities. It's highly respected by universities and employers because it shows you can think logically, solve complex problems, and handle data with precision.

Physics is the foundation of countless modern industries — from engineering, computing, and renewable energy to medicine, robotics, and space exploration. Many students go on to study subjects such as physics, engineering, mathematics, architecture, computer science, or medicine at university, while others use their skills to pursue careers in finance, law, or data analysis.

Beyond qualifications and careers, Physics gives you something even more valuable: a way of thinking that helps you understand and shape the world around you.

Further Information

For further information or if you have any queries, please contact Mr Wood.

