



## A Level Physics

**Physicists explore the fundamental nature of almost everything we know of.**

They probe the furthest reaches of the earth to study the smallest pieces of matter. Join them to enter a world deep beneath the surface of normal human experience.

**Popular degrees taken by students with A Level Physics include:**

Computer Science, Civil Engineering, Aeronautical Engineering, Economics, Business, Physics, Mathematics, Mechanical Engineering and Chemical Engineering.

**There are many potential career options including:**

Meteorologist, Product Development Scientist, Healthcare Scientist, Seismologist, Geophysicist, Secondary School Teacher, Financial Analyst, Stockbroker, Management Consultant, University Lecturer, Radiation Protection Scientist, Nuclear Physicist, Research Scientist, Structural Engineer, Mechanical Engineer, Chemical Engineer, Technical Writer, Computer Programmer, Software Developer, Systems Analyst and many more.

**Topics studied are:**

Measurements and errors

Particles and radiation

Waves

Mechanics and energy

Electricity

Further mechanics and thermal physics

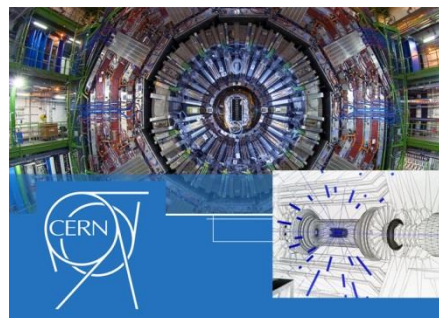
Fields

Nuclear physics

An optional topic: Astrophysics, Medical Physics, Engineering Physics, Turning Points or Electronics. At St. Anne's we usually choose Turning Points.

**Physics is a practical subject.** Throughout your course you will carry out a range of practical activities, including, Investigating the diffraction of laser light, measuring acceleration due to gravity, the safe use of ionising radiation, and many more.

**In Year 12, there is usually a trip to CERN in Switzerland as part of A Level Physics.**



Course: **A Level Physics**

Length of Course: **2 years.**

Entry qualifications: **Three Grades 9-6 at GCSE level including Mathematics and Grade 7 in Higher Tier Combined Science Trilogy or Physics**

Assessment: **2 exams at the end of Year 12, each 90 minutes long.**

**3x2 hour exam at the end of Year 13,**

Practical Skills: **Practical Skills are assessed throughout the course. Students complete twelve practicals during the A Level and are graded as Pass or Fail.**