

Physics (AQA)

“Millions saw the apple fall, but Newton asked ‘Why?’” - Bernard Baruch

A Level Physics covers the Edexcel specification and lots more. In Physics there are many opportunities to investigate the Laws that govern our universe through practical work, trips and extracurricular activities. You also gain access to the Engineering Society and Journal Club, enabling you to expand your horizons.



Academic

The topics covered are Working as a Physicist, Mechanics, Electric Circuits, Materials, Waves and the Particle Nature of Light, Thermodynamics, Space, Nuclear Radiation, Gravitational Fields and Oscillations.

Study is based around practical work as much as possible, and we have the equipment and facilities to allow students to investigate many Physics phenomena themselves. Although the Physics becomes more demanding than at GCSE, we inject a lot of fun into lessons whether we are investigating Lego people bungee jumping, making our own catherine wheels or playing Particle Physics Guess Who. Physics is widely recognised as a subject that uses and develops a wide variety of skills which are useful across a huge number of careers.

Co-Curricular

Students taking A Level Physics have the chance to participate in several clubs. Journal Club allows scientists to look at cutting edge science and discuss their thoughts in a challenging but safe environment. This is a useful preparation for university interviews. Engineering Society provides the opportunity to learn about Material Science, to participate in practical projects and to build and launch rockets. Later on, students can design and run a club for younger students to encourage them in a love of science. Clubs such as Engineering Club and Rocket Club have been run successfully by Physics students in recent years.

Trips are also a vital part of the A Level Physics experience. Regular visits to local Engineering firms, Warwick University, The Rutherford Appleton Laboratory (Oxford) and to CERN in Geneva, Switzerland all help to embed the curriculum in reality.



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