



Overview: Welcome to A-level physics it is a step up from GCSE but your going to manage it.

This year you will look at the fundamental foundations of physics, the links between forces and motion in all directions and the electron, wave and photon.

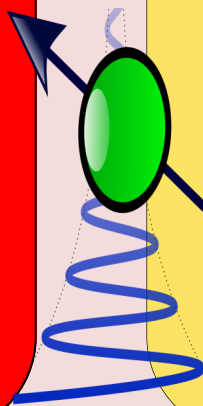
You will also start to gain skills in practical ready for university as you work towards your practical endorsement

Term 1:
Foundations of Physics, Forces and Motion Part 1 and Electrons, Waves and photons Part 1

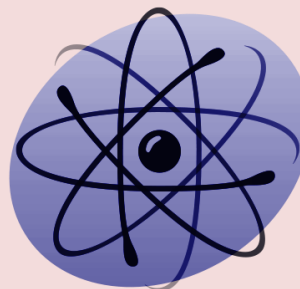
FP You learn the basic quantities, and units of the course along with skills required to solve vector and scalar problems.

F&M You look at motion closely in terms of graphs, free fall and projectiles. They then look at Forces in terms of equilibrium and Moments in triangles of forces

E,W&P You look at Charge in terms of Kirchoff's first law and drift velocity. They then move on to electron in circuits, electromotive force, electron guns and resistivity



Year 12 Physics



Term 3:
Forces and Motion Part 3 and Electrons, Waves and photons Part 3

F&M You look at Newton's Laws and Impulse applying them to collisions in 2 dimensions.

E,W&P You look at Quantum physics with the photon and Einstein's photoelectric effect and the Wave-particle duality

Term 2:

Forces and Motion Part 2 and Electrons, Waves and photons Part 2

F&M You look at work and its links to energy and power. Students look at the physics of material properties linked to the use of the material.

E,W&P You look at the rest of Kirchoff's laws and how electrical sensors are built and work. Students then move onto waves and look at their properties, refraction, reflection, diffraction, interference and polarisation