



Physics: Curriculum Overview

Year 11

Term	Topic studied	What will I learn?	How will I be assessed?
Year 11 Autumn	Electromagnetism part 2 Light & Lenses	Electromagnetic Induction. Generators. Moving Coil microphones Transformers. Refraction, Diffraction. Ripple tanks and wavefronts. Critical angle & Total internal reflection Fibre optics & communications. Lenses - concave & convex, focal length Ray diagrams, images, real, virtual & magnification Using lenses - eye, camera, telescope, magnifying glass.	Practical assessment - investigating electromagnetism Practical assessment - motor build Practical assessment - investigating lenses Practical assessment - investigating lenses Equations assessment - motor effect force Equations assessment - transformer equations Other assessment - ray diagrams Test assessment - Objective test Test assessment - Structured Questions Test Test assessment - Mock Exam
Year 11 Spring	Forces and their effects Exploration & Detection	Moments, Balance, Centre of mass, Levers & gears. Density of regular & irregular objects Pressure, Pressure in liquids and gases, Boyle's Law, Pressure at depth, Hydraulics. Sound & ultrasound, range of hearing, the ear. Measuring with sound, SONAR, pre-natal scanning Making and using X-Rays, CT scanning Seismic waves & Earth structure Seismometers, faults and tectonic plates	Practical assessment - investigating moments and balance Practical assessment - measuring density Equations assessment - moments Equations assessment - pressure at depth Test assessment - Objective test Test assessment - Structured Questions Test
Year 11 Summer	Revision	Review y9-y11 content Practice QWC Exam technique development.	Equations assessment - Equations recall Equations assessment - Equations Rearrangement QWC assessment - written communication tasks Test assessment - past paper practices