

# Edexcel GCSE Physics – Revision Checklist

## Revision Checklist (Edexcel GCSE)

### P1: Energy

■	Energy stores & pathways; conservation of energy	Notes
■	Work, power, efficiency calculations	Notes
■	Specific heat capacity; required practical	Notes
■	Insulation and energy transfer	Notes
■	Energy resources: renewable vs non-renewable	Notes

### P2: Electricity

■	Circuit components and symbols	Notes
■	Current, potential difference, resistance; I–V characteristics	Notes
■	Series vs parallel circuits	Notes
■	Domestic electricity: mains supply, plugs, safety	Notes
■	Power and energy in circuits	Notes

### P3: Particle Model of Matter

■	States of matter and changes of state	Notes
■	Density calculations and required practical	Notes
■	Internal energy, specific latent heat	Notes
■	Gas pressure and temperature/volume relationships	Notes

### P4: Atomic Structure

■	Structure of the atom; isotopes	Notes
■	Radioactivity: alpha, beta, gamma; penetration and range	Notes
■	Half-life and nuclear equations	Notes
■	Hazards and uses of radiation	Notes

### P5: Forces

■	Vectors vs scalars; free-body diagrams	Notes
■	Speed, velocity, acceleration; distance–time/velocity–time graphs	Notes
■	Newton's laws; resultant forces	Notes
■	Momentum, conservation and collisions	Notes
■	Elasticity: Hooke's law (HT)	Notes

## **P6: Waves**

■	Wave properties: frequency, wavelength, amplitude	Notes
■	Reflection and refraction; ripple tank practicals	Notes
■	Sound waves and ultrasound	Notes
■	Electromagnetic spectrum: uses and hazards	Notes
■	Absorption, transmission, scattering	Notes

## **P7: Magnetism & Electromagnetism**

■	Magnetic fields and field lines	Notes
■	Electromagnetism: solenoids, factors affecting strength	Notes
■	Motor effect and left-hand rule	Notes
■	Generators and transformers (HT)	Notes

## **P8: Space Physics (Triple only)**

■	Solar system: planets, orbits, natural/artificial satellites	Notes
■	Life cycle of stars and nuclear fusion	Notes
■	Red-shift and evidence for expansion of the universe	Notes