

A level Physics topics

Physics A content is split into six teaching modules: Modules 1 to 6, combined with the Practical Endorsement, constitute the full A Level. The modules can be summarised as:

- Module 1: Development of practical skills.
- Module 2: Foundations of physics.
- Module 3: Forces and motion.
- Module 4: Electrons, waves, and photons.
- Module 5: Newtonian world and astrophysics.
- Module 6: Particles and medical physics.

Topics include:

• Development of practical skills in physics	• Waves
• Quantum physics	• Physical quantities and units
• Thermal physics data	• Making measurements and analysing
• Nature of quantities	• Work, energy and power
• Motion	• Materials
• Momentum	• Nuclear and particle physics
• Charge and current	• Medical imaging.
• Energy, power and resistance	• Forces in action
• Electrical circuits	• Circular motion
• Capacitors	• Gravitational fields
• Electric fields	• Oscillations
• Electromagnetism	• Astrophysics and cosmology