

Edexcel GCE A level Physics

The table shows the contents of each Group of lessons, mapped to the specification. Some lessons may appear in more than one Group.

| Lesson Group | Specification coverage | Lesson 1 | Lesson 2 | Lesson 3 | Lesson 4 | Lesson 5 | Pre-Test | Post-Test |
|--|------------------------|--|--|--|--|---|----------|-----------|
| A: Mechanics and materials | Topic 2 Topic 4 | Motion and vectors (9 – 16) | Newton’s Laws (17 – 20) | Moments and momentum (21 – 24) | Energy and work (25 – 30) | Stokes’s Law, Hooke’s Law and Young modulus (49 – 58) | A | A |
| B: Electric circuits | Topic 3 | Current and voltage in circuits (31 – 32, 34 – 35) | Resistance (33, 36 – 38) | Resistivity (39 – 41) | Potential dividers (42 – 44) | EMF and internal resistance (45 – 48) | B | B |
| C: Waves and particle nature of light | Topic 5 | Principles of waves (59 – 69, 88 – 89) | Refraction (70 – 74) | Lenses (75 – 81) | Diffraction (82 – 87) | Photons (90 – 96) | C | C |
| D: Further mechanics and oscillations | Topic 6 Topic 13 | Collisions and Newton’s 2 nd Law (97 – 102) | Angular velocity and centripetal force (103 – 107) | Principles of simple harmonic motion (181 – 182) | Simple oscillators (183-185) | Resonance and damping (186 – 191) | D | D |
| E: Fields | Topic 7 Topic 12 | Electric fields (108 – 115) | Capacitance (116 – 120) | Fleming’s Law (121 – 124) | Lenz’s Law and Faraday’s Law (124 – 129) | Gravitational fields (174 – 180) | E | E |
| F: Thermodynamics and space | Topic 9 Topic 10 | Latent heat (144 – 147) | Ideal gases (148 – 151) | Black body radiation (152 – 155) | Intensity and luminosity (156 – 160) | Doppler effect and red shift (161 – 163) | F | F |

Pearson Tutoring Programme Resources Mapping

| Lesson Group | Specification coverage | Lesson 1 | Lesson 2 | Lesson 3 | Lesson 4 | Lesson 5 | Pre-Test | Post-Test |
|---------------------------|------------------------|---|-------------------------------------|-----------------------------------|--------------------------------|---------------------------|----------|-----------|
| G: Nuclear physics | Topic 8 Topic 11 | The nuclear model over time (130 – 132) | Quark model of the atom (140 – 143) | Particle accelerators (133 – 139) | Fusion and fission (164 – 167) | Nuclear decay (168 – 173) | G | G |