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 2nd 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**

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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**