

A Level Practical Topics in the Specification

Topic No	Spec*	Name	Practicals – Core in Bold
1	8	Working as a Physicist	1 – speed of water waves
AS			
2	22	Mechanics	2 – parabolic motion: 3 – 1, g by free fall : 4 – Moments:
3	18	Electric Circuits	5 – Resistance of combinations of resistors: 6 – 2, Resistivity : 7 – 3, emf & internal resistance
4	10	Materials	8 – 4, viscosity : 9 – Hooke's law: 10 – 5, Young modulus
5	38	Waves and Particle Nature of Light	11 – 6, Speed of sound in air : 12 – 7, waves on a string : 13 – Refractive index of glass: 14 – focal length of a lens: 15 – 8, diffraction
Y13			
6	11	Further Mechanics	1 – 9, Force and momentum : 2 – 10, Collisions :
7	22	Electric and Magnetic Fields	3 – Capacitor charging at constant current: 4 – 11, capacitor discharge : 5 – Interacting magnetic fields: 6 – Heating effect of an ac
8	14	Nuclear and Particle Physics	
9	12	Thermodynamics	7 – 12, Thermistor as thermometer : 8 – 13, Latent heat : 9 – 14, Boyle's law : 10 – Black body radiator
10	8	Space	11 – Inverse square law for radiation
11	10	Nuclear Radiation	12 – 15, Absorption of gamma rays
12	7	Gravitational Fields	
13	11	Oscillations	13 – 16, Measuring mass by oscillation : 14 – Compound pendulum: 15 – Linked oscillators

* Number of Specification statements, ie roughly topic length