



## GCSE Revision Topics 2017 - 2019 Physics Only Foundation

Topic	Tick/date when revised				
<b>P1 Conservation and Dissipation of Energy</b>					
P1.1 Changes in energy stores					
P1.2 Conservation of energy					
P1.3 Energy and work					
P1.4 Gravitational potential energy stores					
P1.5 Kinetic energy and elastic energy stores					
P1.6 Energy dissipation					
P1.7 Energy and efficiency					
P1.8 Electrical appliances					
P1.9 Energy and power					
<b>P2 Energy Transfer by Heating</b>					
P2.1 Energy transfer by conduction					
P2.2 Infrared radiation					
P2.4 Specific heat capacity					
P2.5 Heating and insulating building					
<b>P3 Energy Resources</b>					
P3.1 Energy demands					



P3.2 Energy from wind and water					
P3.3 Power from the Sun and the Earth					
P3.4 Energy and the environment					
P3.5 Big energy issues					
<b>P4 Electric Circuits</b>					
P4.1 Electrical charges and fields					
P4.2 Current and charge					
P4.3 Potential difference and resistance					
P4.4 Component characteristics					
P4.5 Series circuits					
P4.6 Parallel circuits					
<b>P5 Electricity in the Home</b>					
P5.1 Alternating current					
P5.2 Cables and plugs					
P5.3 Electrical power and potential difference					
P5.4 Electrical currents and energy transfer					
P5.5 Appliances and efficiency					
<b>P6 Molecules and Matter</b>					
P6.1 Density					
P6.2 States of matter					
P6.3 Changes of state					

P6.4 Internal energy					
P6.5 Specific latent heat					
P6.6 Gas pressure and temperature					
P6.7 Gas pressure and volume					
<b>P7 Radioactivity</b>					
P7.1 Atoms and radiation					
P7.2 The discovery of the nucleus					
P7.3 Changes in the nucleus					
P7.4 More about alpha, beta and gamma radiation					
P7.5 Activity and half-life					
P7.6 Nuclear radiation in medicine					
P7.7 Nuclear fission					
P7.8 Nuclear fusion					
P7.9 Nuclear issues					
<b>P8 Forces in Balance</b>					
P8.1 Vectors and scalars					
P8.2 Forces between objects					
P8.3 Resultant forces					
P8.4 Moments at work					
P8.5 More about levers and gears					
P8.6 Centre of mass					

P8.7 Moments and equilibrium					
<b>P9 Motion</b>					
P9.1 Speed and distance-time graphs					
P9.2 Velocity and acceleration					
P9.3 More about velocity-time graphs					
P9.4 Analysing motion graphs					
<b>P10 Force and Motion</b>					
P10.1 Force and acceleration					
P10.2 Weight and terminal velocity					
P10.3 Forces and braking					
P10.8 Forces and elasticity					
<b>P11 Force and Pressure</b>					
P11.1 Pressure and surfaces					
P11.3 Atmospheric pressure					
<b>P12 Wave Properties</b>					
P12.1 The nature of waves					
P12.2 The properties of waves					
P12.4 More about waves					
<b>P13 Electromagnetic Waves</b>					
P13.1 The electromagnetic spectrum					

P13.2 Light, infrared, microwaves and radio waves					
P13.3 Communications					
P13.4 Ultraviolet waves, X-rays and gamma rays					
P13.5 X-rays in medicine					
<b>P14 Light</b>					
P14.1 Reflection of light					
P14.2 Refraction of light					
P14.3 Light and colour					
P14.4 Lenses					
P14.5 Using lenses					
<b>P15 Electromagnetism</b>					
P15.1 Magnetic fields					
P15.2 Magnetic fields of electric currents					
P15.3 Electromagnets in devices					
<b>P16 Space</b>					
P16.1 Formation of the Solar System					
P16.2 The life history of a star					
P16.3 Planets, satellites and orbits					
P16.4 The expanding universe					
P16.5 The beginning and future of the universe					