



QPHS Year 10 Physics Curriculum Map

Half term	Title	Unit summary	Assessment
1	P1 Energy	<ul style="list-style-type: none"> • Energy changes in a system, and the ways energy is stored • Conservation, efficiency and dissipation of energy • National and global energy sources 	<ul style="list-style-type: none"> • Required practical – investigation to determine the specific heat capacity of materials. • Required practical – investigate the effectiveness of different materials as thermal insulators. • Mid-point topic test with cumulative content from year 9 physics 2. • End of topic test with cumulative content from year 9 physics 2.
2			
3	P2 Electricity	<ul style="list-style-type: none"> • Current, potential difference and resistance in series and parallel circuits • Electrical power and static electricity • Domestic uses of electricity 	<ul style="list-style-type: none"> • Required practical – use circuits to investigate the effect of length of a wire on resistance. • Required practical – construct circuits to investigate the I-V characteristics of a filament lamp, diode and a resistor. • End of topic test with cumulative content from year 10 physics.
4	P4 Atomic structure	<ul style="list-style-type: none"> • Atoms and isotopes • Radioactive decay, nuclear equations and half life • Radioactive contamination 	<ul style="list-style-type: none"> • End of topic test with cumulative content from year 10 physics.
5	P3 Particle model of matter	Students will learn about: <ul style="list-style-type: none"> • Particle motion in gases • Pressure in gases • How increasing the pressure of a gas occurs 	<ul style="list-style-type: none"> • End of topic test with cumulative content from year 10 physics and year 9 physics 2.
6	Revision		