



QPHS Year 10 Physics Curriculum Map

Half term	Title	Unit summary	Assessment
1	P2 Electricity	- Current, potential difference and resistance in series and parallel circuits - Electrical power and static electricity - Domestic uses of electricity	- 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.
2			
3	P4 Atomic structure	- Atoms and isotopes - Radioactive decay, nuclear equations and half life - Radioactive contamination	- End of topic test with cumulative content from year 10 physics.
4	P1 Energy	- Energy changes in a system, and the ways energy is stored - Conservation, efficiency and dissipation of energy National and global energy sources	- 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.
5	P3 Particle model of matter	Students will learn about: - Particle motion in gases - Pressure in gases - How increasing the pressure of a gas occurs	End of topic test with cumulative content from year 10 physics and year 9 physics 2.
6	Revision		