



QPHS Year 11 Physics Curriculum Map

Half term	Title	Unit summary	Assessment
1	P5 Forces	<ul style="list-style-type: none"> Forces; scalar and vector quantities, contact, gravity, resultant forces, work done, elasticity and moments. Motion; distance, displacement, speed, velocity, acceleration and momentum. Newton's laws of motion and forces and braking 	<ul style="list-style-type: none"> Required practical – investigate the relationship between force and extension for a spring. End of topic test with cumulative content from year 10 physics. Required practical – investigate the effect of varying force and mass on acceleration. Mid-point topic test with cumulative content from year 10 physics. End of topic test with cumulative content from year 10 and 11 physics.
2		P6 Waves	<ul style="list-style-type: none"> Properties of transverse and longitudinal waves Properties and uses of electromagnetic waves Lenses, visible light and black body radiation
3	P7 Magnets and electromagnets		<ul style="list-style-type: none"> Poles of a magnet and magnetic fields The motor effect; electromagnetism, Fleming's left-hand rule, electric motors and loudspeakers. Induced potential, transformers and the National Grid
4		P8 Space	<ul style="list-style-type: none"> Our solar system and stars Orbital motion, natural and artificial satellites Red-shift
5	Revision		