

## (Year 11 Physics) Long-Term Plan

**Long-term planning (LTPs)** - Planning how the key concepts, knowledge, skills identified in the Progression map will be delivered termly per year group

Ensuring that end points & NC/spec are covered

Identifying what assessments are planned and when

Ensuring whole school intent priorities to be planned for

<b>(Year 11 Physics)</b>						
	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
<b>Unit title:</b>	P12 Wave Properties	P13 Electromagnetic Waves	P14 Light/P15 magnets	P15 Space	Revision	
<b>Unit length:</b>	7 lessons	5 lessons	5 lessons /8 lessons	5 lessons		
<b>Key concepts:</b>	Transverse & longitudinal waves The wave equation Transmission, reflection, refraction and absorption	Applications and dangers of the EM spectrum Black body radiation	Constructing ray diagrams through lenses Applications of lenses Permanent and induced magnets Electromagnets Motors and loudspeakers Induction and generators Microphones Transformers	The life cycle of stars How the elements are created Red shift and the Big Bang		
<b>Knowledge/ Skills:</b>	RP – Measuring wave speed on water and in a vibrating string		RP – Reflection & refraction RP – Surfaces and radiation			
<b>End points covered:</b>	See above	See above	See above	See above		
<b>NC/Spec coverage:</b>	4.6	4.6	4.6/4.7	4.8		
<b>Cross-curricular links:</b>	Seismic waves – Geography Calculations – Maths	Calculations – Maths Describe, explain, evaluate - English	Calculations – Maths Describe, explain, evaluate - English	Calculations – Maths Describe, explain, evaluate - English		

	Describe, explain, evaluate - English					
<b>Assessments:</b>	AP1 topic test	AP2 Trial exam Paper 1		AP3 Trial exam Paper 2		
<b>Other school intent priorities</b>						
<b>New experiences – broadening horizons</b>						
<b>Developing character – <i>Kind, Hard Working, Successful</i></b>						
<b>Context specific need – diversity, inclusion; reading, literacy; mental health</b>						
<b>Curriculum Careers - Gatsby 4</b>	Engineering Medicine Architecture Education Research Sustainability	Engineering Medicine Architecture Education Research Sustainability	Engineering Medicine Architecture Education Research Sustainability	Engineering Medicine Architecture Astronomy Education Research Sustainability		