

Physics Year 11	Curriculum intent: The Science curriculum across key stage 4 enables students to further develop their scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics. It enables them to develop their understanding of the nature, processes and methods of science that help them to answer scientific questions about the world around them. This then equips them with the scientific skills required to understand the uses and implications of science today and in the future.											
Term	1				2				3			
Interleaving	Key knowledge from previously studied topics				Key knowledge from previously studied topics							
Knowledge Separate Physics	Forces (2) Waves				Magnetism and electromagnetism Space Physics				Revision			
Understanding Separate Physics	Apply knowledge in a range of different contexts, opportunities to include: Investigating the effect of varying the force on the acceleration of an object. Exploring the concept of momentum in collisions and explosions. Measuring the frequency, wavelength and speed of waves.				Apply knowledge in a range of different contexts, opportunities to include: Interpreting diagrams to explain how electromagnetic devices work. Making an electric motor and exploring how transformers work.				Revision to include revisiting key concepts, working scientifically and required practicals. Further practise at applying knowledge and understanding to a variety of exam questions. Refining exam technique.			
Knowledge Combined Physics	Forces (2) Waves				Magnetism and electromagnetism				Revision			
Understanding Combined Physics	Apply knowledge in a range of different contexts, opportunities to include: Investigating the effect of varying the force on the acceleration of an object. Measuring the frequency, wavelength and speed of waves.				Apply knowledge in a range of different contexts, opportunities to include: Plotting the magnetic field around a bar magnet. Explaining how to increase the magnetic effect of a current. Describing the motor effect.				Revision to include revisiting key concepts, working scientifically and required practicals. Further practise at applying knowledge and understanding to a variety of exam questions. Refining exam technique.			
Skills	Scientific thinking Experimental skills Analysis and evaluation Scientific vocabulary				Scientific thinking Experimental skills Analysis and evaluation Scientific vocabulary				Scientific thinking Experimental skills Analysis and evaluation Scientific vocabulary			
Assessment	End of topic Tests				End of topic Tests				End of topic Tests			