

Physics Year 10	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				Key knowledge from previously studied topics			
Knowledge Separate Physics	Energy (2) Electricity				Particle Model Atomic Structure				Atomic Structure Continued Forces 1			
Understanding Separate Physics	Apply knowledge in a range of different contexts, opportunities to include: Evaluating the uses of energy resources for electricity generation whilst considering the environmental issues that may arise from this. Investigating factors that affect the resistance within electrical circuits. Using circuit diagrams to construct circuits to investigate various components.				Apply knowledge in a range of different contexts, opportunities to include: Explaining the different properties of solids, liquids and gases, changes in state and pressure using the particle model. Explaining the difference between nuclear fission and fusion.				Apply knowledge in a range of different contexts, opportunities to include: Comparing the properties of different types of nuclear radiation and modelling half-life.			
Knowledge Combined Physics	Energy Electricity				Particle Model Atomic Structure				Atomic Structure Continued Forces 1			
Understanding Combined Physics	Apply knowledge in a range of different contexts, opportunities to include: Evaluating the uses of energy resources for electricity generation whilst considering the environmental issues that may arise from this. Investigating factors that affect the resistance within electrical circuits. Using circuit diagrams to construct circuits to investigate various components.				Apply knowledge in a range of different contexts, opportunities to include: Explaining the different properties of solids, liquids and gases, changes in state and pressure using the particle model				Apply knowledge in a range of different contexts, opportunities to include: Comparing the properties of different types of nuclear radiation and modelling half-life.			
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			