

Chemistry 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				Revisiting key concepts and working scientifically vocabulary			
Knowledge Separate Chemistry	Chemical changes 2 Quantitative Chemistry 2 Chemical Analysis				Organic chemistry 2 Earth's Resources				Revision			
Understanding Separate Chemistry	Apply Knowledge in a range of different contexts opportunities to include: Producing samples of salts by a variety of different methods. Calculating which reactant might limit the production of a particular product. Carrying out analytical tests to find the composition of unknown chemicals				Apply Knowledge in a range of different contexts opportunities to include: Describing the reactions of alkenes. Explaining how carboxylic acids and alcohols form esters. Describing the importance of life cycle assessments in determining the environmental impact of a product.				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 Chemistry	Chemical Changes 1 Chemical Changes 2				Chemical Analysis Earth's Resources				Revision			
Understanding Combined Chemistry	Apply Knowledge in a range of different contexts opportunities to include: Explaining how the position of metals in the reactivity series can determine the method of their extraction. Producing samples of salts by a variety of different methods.				Apply Knowledge in a range of different contexts opportunities to include: Describing how to use a chromatogram to analyse an unknown food dye. Describing the importance of life cycle assessments in determining the environmental impact of a product.				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				Year 11 Exams			