



Curriculum Overview for Chemistry Year 11

Half Term 3: Chemical analysis Substantive Knowledge:		Skim and Scan of source information Decoding terms Etymology of key terms
Describe how we test for pure substances. Describe the use of formulation. Identify examples of formulations. Describe the chromatography required practical.		
Explain how paper chromatography separates mixtures. Describe the test for hydrogen. Describe the test for oxygen Describe the test for chlorine. Describe the test for carbon dioxide		Pure, Boiling point, Mixture, Formulation, Chromatography, Mobile phase, Stationary phase, Limewater, Litmus paper
Disciplinary Knowledge:		
complete a chomatogram.		Recall questions to start every lesson Recall test Review sheet
		Revision Card preparation for every lesson Recall test Review sheet Repetition of use of revision cards for end of unit assessment
Half Term 4: Chemistry of the atmosphere		Skim and Scan of source information Decoding terms
Substantive Knowledge: Describe scientist's theory on how the Earth's atmosphere developed. Identify the photosynthesis equation and link to the development of the atmosphere. Explain how the levels of		Etymology of key terms
carbon dioxide change over time. Describe greenhouse effect in terms of short and long wave radiation. Explain how human activities increase levels of carbon dioxide and methane and the impact of it. Describe how to decrease emissions of carbon dioxide and methane. Describe how carbon monoxide, carbon particles (soot), sulfur dioxide and oxides of nitrogen are		Acid rain, carbon footprint, environmental implication, Fossil fuels, Global climate change, Global dimming, Greenhouse effect, Greenhouse gases, Particulates, Photosynthesis, Pollutants
produced by burning fuels. Explain the effects of carbon monoxide, carbon particles (soot) and sulfur dioxide.	=:	Recall questions to start every lesson Recall test
Disciplinary Knowledge: Use ratios, fractions and percentages to describe the Earth's atmosphere.	=>	Paper 2 mock – unit 6,7 8, 9 and 10
<u>Using resources unit 10</u>		Revision Card preparation for every lesson Recall test
Substantive Knowledge: Finite and renewable resources, Reusing and recycling, Lifetime carbon assessment, Potable water theory, Waste water treatment,		Review sheet Repetition of use of revision cards for end of unit assessment
Disciplinary Knowledge:		





Analysis of data, describing how to test for potable water,	
Understanding and responding to command terms, Applying	
concepts into different contexts	