

Prior Learning		Finite and renewable resources (C7 and C9); Distillation (C1 and C7); Analysis and purity of compounds (C8); metal extraction (C4)		
Lesson Number	AQA Spec	Title	Content	Assessment/ Homework
1	4.10.1.1	Key concept: Using the Earth's resources and sustainable development	<ul style="list-style-type: none"> Give examples of natural products replaced by synthetics. Give examples of products replaced by agricultural products. Distinguish between finite and renewable resources. 	
2.	4.10.1.2	Potable water	<ul style="list-style-type: none"> Distinguish between potable water and pure water. Describe the differences in treatment of ground water and salty water. Explain what is needed to provide potable water for all. 	
3		Required practical: Analysis and purification of water samples from different sources, including pH, dissolved solids and distillation	<ul style="list-style-type: none"> Describe how safety is managed, apparatus is used and accurate measurements are made. Recognise when sampling techniques need to be used and made representative. Carry out a procedure to produce potable water from salt solution. Evaluate methods and suggest possible improvements and further investigations. 	Assessment: Exampro 15 marks H and F versions
4	4.10.1.3	Waste water treatment	<ul style="list-style-type: none"> Explain how waste water is treated. Describe how sewage is treated. Compare the ease of treating waste, ground and salt water. 	
5 HIGHER TIER ONLY	4.10.1.4	Alternative methods of metal extraction	<ul style="list-style-type: none"> Describe the process of phytomining. Describe the process of bioleaching. Evaluate alternative biological methods of metal extraction. 	

6	4.10.2.1	Life cycle assessment and recycling	<ul style="list-style-type: none"> Describe the components of a life cycle assessment (LCA). Interpret LCAs of materials or products from information. Carry out a simple comparative LCA for shopping bags. 	
7	4.10.2.2	Ways of reducing the use of resources	<ul style="list-style-type: none"> Describe ways of recycling and reusing materials. Explain why recycling, reusing and reducing are needed. Evaluate ways of reducing the use of limited resources. 	Assessment: 25-mark quiz Self-assessed
8		Maths skills: Translate information between graphical and numerical form	<ul style="list-style-type: none"> Represent information from pie charts numerically. Represent information from graphs numerically. Represent numeric information graphically. 	Can be incorporated in previous lessons
End of Unit test 3 versions: H, F, TRIPLE				
Where we will use these ideas again	<ul style="list-style-type: none"> Last Chemistry unit 			