## Year 9: ASK Yourself!

Subject: Chemistry
Unit: 4 – Chemical Changes

Unit: 4 – Chemica						
	Launching	Developing	Progressing	Mastering		
	1-2	3-4	5-6	7-9		
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	To be able to use	To be able to use	To be able to use	To be able to		
	the pH scale to	experimental	the reactivity	predict the		
	identify acidic or	results of	series to predict	products of the		
	alkaline solutions.	displacement	displacement	electrolysis of		
	To be able to	reactions to	reactions.	aqueous solutions.		
	identify that metals	confirm the	To be able to	To be able to		
	react with oxygen	reactivity series. To	deduce an order of	predict the		
	to form metal	be able to explain	reactivity of metals	products of the		
	oxides.	weak and strong	based on	electrolysis of		
	To be able to	acids by the degree of ionisation.	experimental results.	aqueous solutions		
	identify substances oxidised or reduced	oj ionisation,	To be able to write	containing a single ionic compound.		
	by gain or loss of		ionic equations for	To be able to		
	oxygen.		displacement	interpret or		
	, 5		reactions.	evaluate		
			To be able to use	information on		
			half equations to	specific metal		
			describe oxidation	extraction		
			and reduction.	processes.		
			To be able to use	To be able to derive		
			apparatus to	a formula for a salt		
			electrolyse aqueous solutions in the	from its ions.		
			laboratory.			
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nowledge						
	To be able to	To be able to	To be able to	To be able to write		
	identify that	describe the	explain how	full balanced		
	metals react with	reactions, if any,	extraction	symbol equations		
	oxygen to form	of metals with	methods depend	for making salts.		
	metal oxides.	water or dilute	on metal	To be able to		
	To be able to describe how to	acids to place these metals in	reactivity. To be able to	explain how to		
	make salts from	tnese metals in order of		name a salt. To be		
	make saits from metals and acids.	reactivity.	explain the terms dilute and	able to identify reactions at		
	To be able to	To be able to	concentrated as	electrodes during		
	describe how to	explain reduction	the amounts of	electrolysis.		
	make pure, dry	and oxidation by	substances	To be able to		
	samples of soluble	loss or gain of	dissolved.	explain which		
	salts. describe the	oxygen.	To be able to	metals (or		
	use of universal	onygen.	explain why	hydrogen) are		
	use of universal		explain why	nyui ogen) ure		

	sure pH.	To be able to explain how the reactivity is related to the tendency of the metal to form its positive ion. To be able to describe neutralisation through the effect on hydrogen ions and pH.	electrolytes need to be molten to conduct electricity. To be able to explain why some metals need to be extracted by electrolysis. To be able to explain the electrolysis of copper sulfate using inert electrodes.	formed at the cathode in preference. To be able to represent reactions at electrodes by half equations.
		γι t.	using inert	