

Subject	Year		Term	
Science	11		2	
	То	pic		
11C2 Electrolysis, energy changes and equilibrium				
Content (Intent)				
<ul> <li>Prior Learning (Topic) KS2 national curriculum Y5 properties and changes of materials, KS3 Y7 7C1 changing state, Y8 8C1 properties of elements, 8C2 Chemical reactions and the Earth, Y9 C5 Energy changes Y11 11C1 structure and bonding</li> <li>Principles of electrolysis of molten and dissolved ionic compounds</li> <li>reversible reactions and dynamic equilibrium</li> </ul>				
<ul> <li>Le Chatellier's principle (HT only)</li> <li>How does changing temperature, pressure concentration effect equilibrium? (HT only)</li> <li>To explain the effect of a catalyst on equilibrium.</li> </ul>				
<b>Future Learning (Topic)</b> , <b>Y12</b> 2.1.5 redox, 3.2.1 Enthalpy changes, 3.2.3 chemical equilibrium <b>Y13</b> 5.1.1 How fast? 5.1.2 How far? 5.1.3 Acids bases and buffers, 5.2.3 electrode potentials				
How will knowledge and skills be taught?		How will your understanding be assessed &		
(Implementation) recorded (Impact)		act)		
Practical work: Electrolysis of ionic compounds in solution, prediction of what's made at each electrode when molten or dissolved Required practical 9 – Electrolysis		<ul> <li>- 2 x standard homeworks (Level given.</li> <li>Written feedback. Response expected.)</li> <li>-1 x combined end of topic test with C8</li> <li>(Level given. Verbal feedback to class and individuals.)</li> </ul>		
Written Notes in book.		-		
How can parants help at home?				
Look at the topic specific resources on the VLE Use appropriate youtube channels: cognito, primrosekitten, khan academy, freesciencelessons. Take an interest! Ask your children what they have learnt and be curious about their				
learning.				
Helpful further reading/discussion				
Keading	Electrolyte Andode Cathode Energy change		Careers LINKS Medicine Chemical analysis Engineer Chemical manufactory	

Activation energy Catalyst Le Chatellier Reversible Reaction	
Dynamic equilibrium	