



Subject		Year	Term
Combined Science		10	3
Topic			
Chemistry - Chemical Changes (Unit 4), Energy Changes (Unit 5)			
Content (Intent)			
<b>Prior Learning (Topic)</b>		Chemistry - Bonding (Unit 2), Quantitative Chemistry (Unit 3)	
AQA GCSE Combined Science			
<ul style="list-style-type: none"> <li>Unit 4 – Reactivity and Extraction of Metals, Acids and their reactions, Electrolysis</li> <li>Unit 5 – Exothermic and Endothermic Reactions.</li> </ul>			
<b>Future Learning (Topic)</b>		Chemistry - Electrolysis (Unit 4), Energy Changes (Unit 5), Rates and Equilibria (Unit 6), Organic Chemistry (Unit 7)	
What Knowledge and Skills will be taught (Implementation)		How will your understanding be assessed & recorded (Impact)	
<b>Unit 4 Chemical Changes</b> Reactivity of Metals, the reactivity series, redox, Metal Extraction. Reactivity of Acids: the products with metals, bases, alkalis and metal carbonates. Neutralisation and titrations. Electrolysis of compounds and the extraction of Aluminium from its ore using electrolysis.  Required Practical 'Preparation of a dry soluble salt'		<b>Key Piece of work (Homework)</b> Pupils given a percentage and formative feedback provided. <b>End of topic test</b> Pupils given a percentage and GCSE equivalent grade. Formative feedback provided.	
<b>Unit 5 Energy Changes</b> Exothermic and Endothermic reactions energy profile diagrams and definitions. Energy changes calculations.  Required practical 'investigate the energy changes in a reaction'		<b>Key Piece of work (Homework)</b> Pupils given a percentage and formative feedback provided. <b>End of topic test</b> Pupils given a percentage and GCSE equivalent grade. Formative feedback provided. <b>Required Practical summer review test</b> Pupils given a percentage and GCSE equivalent grade. Formative feedback provided.	
How can parents help at home?			
Ensure all class booklets are complete and homework submitted on time Assist in ensuring the active use of the EDUCAKE online learning platform where each pupil is given a personal log on from their teachers. Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters. Ensure all pupils have all their resources required for science lessons, including booklets, pens and calculators			
Helpful further reading/discussion (including Reading and Vocabulary Lists)			
<b>Reading</b> AQA revision guides AQA revision cards EDUCAKE online learning platform. GCSE POD		<b>Vocabulary Lists</b> Electrolyte Electrode Redox Oxidation Reduction Exothermic Reaction Endothermic Reaction Activation Energy Anions Cations	