



Subject	Year	Term																
Chemistry	10	3																
Topic																		
Chemistry - Energy Changes (Unit 5), Using Resources (Unit 10)																		
Content (Intent)																		
Prior Learning (Topic) Bonding (Unit 2), Quantitative Chemistry (Unit 3)																		
AQA GCSE Chemistry <ul style="list-style-type: none">Unit 5 – Energy Changes - Exothermic and Endothermic Reactions, Chemical and Fuel CellsUnit 10 – Using Resources – Potable water, extracting metals, Life Cycle Assessments																		
Future Learning (Topic) Chemistry - Rates of a chemical reaction and Equilibria (Unit 6), Organic Chemistry (Unit 7)																		
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)																	
Unit 5 Energy Changes Exothermic and Endothermic reactions energy profile diagrams and definitions. Energy changes calculations. Creating and analysing Chemical Cells. Recalling equations including half equations for Fuel Cells. Required practical ‘Investigate the Energy Changes in a Reaction’	Key Piece of work (Homework) Pupils given a percentage and formative feedback. End of topic test Pupils given a percentage and GCSE equivalent grade. Formative feedback provided. Yr 10 Mock Exams Pupils given a percentage and GCSE equivalent grade. Interleaving topic Unit 2- Bonding , Key Terms, concept, will be reviewed prior to the start of the Unit 5 Energy Changes																	
Unit 10 Using Resources Processes by which Potable water is produced and definitions. Methods of extracting metals such as copper. Life Cycle assessments for everyday items and materials. Corrosion, Alloys, Ceramics, Polymers, Composites. The Haber process and NPK Fertilisers. Required practical ‘Analysis and Purification of Water’	Key Piece of work (Homework) Pupils given a percentage and formative feedback. End of topic test Pupils given a percentage and GCSE equivalent grade. Formative feedback provided. Walking talking Mocks (WTM) Formative feedback provided. Yr 10 Mock Exams Pupils given a percentage and GCSE equivalent grade.																	
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 Knowledge organisers, pens and calculators																		
Helpful further reading/discussion (including Reading and Vocabulary Lists)																		
Reading AQA revision guides AQA revision cards EDUCAKE online learning platform. GCSE POD BHHS Knowledge organisers	Vocabulary Lists <table><tr><td>Rechargeable Cells</td><td>Potable water</td></tr><tr><td>Non-Rechargeable Cells</td><td>Life cycle assessments</td></tr><tr><td>Exothermic Reaction</td><td>Corrosion</td></tr><tr><td>Endothermic Reaction</td><td>Ceramics</td></tr><tr><td>Activation Energy</td><td>Composites</td></tr><tr><td>Chemical Cells</td><td>Haber Process</td></tr><tr><td>Fuel Cells</td><td>Galvanising</td></tr><tr><td>Hydrogen Fuel Cell</td><td>Sacrificial Anode</td></tr></table>		Rechargeable Cells	Potable water	Non-Rechargeable Cells	Life cycle assessments	Exothermic Reaction	Corrosion	Endothermic Reaction	Ceramics	Activation Energy	Composites	Chemical Cells	Haber Process	Fuel Cells	Galvanising	Hydrogen Fuel Cell	Sacrificial Anode
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