



Subject	Year	Term										
Chemistry	10	2										
Topic												
Chemistry - Quantitative Chemistry (Unit 3), Chemical Changes (Unit 4)												
Content (Intent)												
Prior Learning (Topic)	Chemistry - Bonding (Unit 2), Quantitative Chemistry (Unit 3)											
AQA GCSE Chemistry <ul style="list-style-type: none"><li>Unit 3 Quantitative Chemistry – Mole Calculations, Ar, Mr, titrations and their calculations, percentage yield, and empirical formula</li><li>Unit 4 – Chemical Changes - Reactivity and Extraction of Metals, Acids and their reactions, Electrolysis</li></ul>												
Future Learning (Topic)	Chemistry - Energy Changes (Unit 5), Chemistry – Using Resources (Unit 10)											
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)											
<b>Unit 3 Quantitative Chemistry</b> Calculating mass of reactants and products, Calculating Mr, Ar, Number of Moles, Number of moles in solutions, titration calculations, Concentrations, Volumes, Empirical formulas, percentage yield, limiting reagents, calculating to significant figures.	<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>Yr 10 Mock Exams</b> Pupils given a percentage and GCSE equivalent grade. <b>Interleaving topic</b> <b>Unit 9- The Atmosphere</b> , Key Terms and concepts, will be reviewed prior to the start of the Unit 4 Chemical Changes.											
<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’ Required Practical ‘Titration and Volume determination’	<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>Yr 10 Mock Exams</b> 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)												
<b>Reading</b> AQA revision guides AQA revision cards EDUCAKE online learning platform. GCSE POD BHHS Knowledge organiser	<b>Vocabulary Lists</b> <table><tr><td>Electrolyte</td><td>Cathode</td></tr><tr><td>Electrode</td><td>Anode</td></tr><tr><td>Redox</td><td>Anions</td></tr><tr><td>Oxidation</td><td>Cations</td></tr><tr><td>Reduction</td><td></td></tr></table>		Electrolyte	Cathode	Electrode	Anode	Redox	Anions	Oxidation	Cations	Reduction	
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