

Subject	Year	Term																		
Chemistry	12	2																		
Topic																				
Physical, Inorganic and Organic Chemistry																				
Content (Intent)																				
Prior Learning (Topic) Physical, Inorganic and Organic Chemistry																				
AQA A Level Chemistry																				
<ul style="list-style-type: none"> • Physical Chemistry – Energetics, Kinetics, Chemical Equilibria, Le Chatelier’s principle and Kc • Organic Chemistry – Alkanes, Alkenes, Halogenoalkanes and Alcohols • Inorganic Chemistry – Oxidation, Reduction and Redox equations 																				
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Future Learning (Topic) Physical, Inorganic and Organic Chemistry																				
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)																			
Physical Chemistry 1. Energetics 2. Kinetics 3. Chemical Equilibria, Le Chatelier’s principle and Kc Organic Chemistry 1. Alkanes 2. Alkenes Required practical 2 - Measurement of an enthalpy change. Required practical 3 - Investigation of how the rate of a reaction changes with temperature.	End of topic tests - A level grading and formative feedback given. Summative Assessment 2 in year 12 and summative assessment 1 and 2 in year 13.. A level grading and formative feedback given.																			
Inorganic Chemistry 1. Oxidation, reduction and redox equations Organic Chemistry 1. Halogenoalkanes 2. Alcohols Required practical 5 - Distillation of a product from a reaction.	Homework – a percentage, A level grade and Formative feedback provided. End of topic tests - A level grading and formative feedback given. Spring Mock Exam - A level grading and formative feedback given. Homework – a percentage, A level grade and Formative feedback provided.																			
How can parents help at home																				
Ensure all class notes and content files are complete and homework submitted on time Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters. Encourage pupils to actively research future University courses and careers.																				
Helpful further reading/discussion (including Reading and Vocabulary Lists)																				
Reading Text Book - CGP New A-Level Chemistry for AQA: Year 1 & 2 Websites <ul style="list-style-type: none"> • A-levelchemistry.co.uk • ChemGuide.co.uk (written by Jim Clark) • KnockHardy • AQA website Books – Calculations in AS/A level Chemistry by Jim Clark Essential Maths Skills for A- Level Chemistry – CGP UPLEARN	Vocabulary Lists <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Alkanes</td> <td style="width: 50%;">Aldehydes</td> </tr> <tr> <td>Alkenes</td> <td>Ketones</td> </tr> <tr> <td>Halogenoalkanes</td> <td>Amines</td> </tr> <tr> <td>Nucleophile</td> <td>Carbocation</td> </tr> <tr> <td>Electrophile</td> <td>Equilibria</td> </tr> <tr> <td>Nucleophilic Substitution</td> <td>Le Chatelier’s Principle</td> </tr> <tr> <td>Free Radical Substitution</td> <td>Maxwell Boltzmann</td> </tr> <tr> <td>Electrophilic Addition</td> <td>Elimination</td> </tr> <tr> <td>Mechanism</td> <td></td> </tr> </table>		Alkanes	Aldehydes	Alkenes	Ketones	Halogenoalkanes	Amines	Nucleophile	Carbocation	Electrophile	Equilibria	Nucleophilic Substitution	Le Chatelier’s Principle	Free Radical Substitution	Maxwell Boltzmann	Electrophilic Addition	Elimination	Mechanism	
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