

Subject	Year	Term										
Chemistry	12	3										
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 – NMR Spectroscopy, Chromatography • Organic Chemistry – Organic Analysis, Aldehydes and Ketones, Optical Isomerism • Inorganic Chemistry – Group 2 and 7 												
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Future Learning (Topic) Organic Chemistry and Physical Chemistry												
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)											
Inorganic Chemistry 1. Group 2 and 7 Organic Chemistry 1. Organic Analysis 2. Aldehydes and Ketones Required practical 4 - Carry out simple test-tube reactions to identify: cations – Group 2, NH_4^+ anions – Group 7 (halide ions), OH^- , CO_3^{2-} , SO_4^{2-}	End of topic tests - A level grading and formative feedback given. Summative Assessment 1 and 2 in year 13. A level grading and formative feedback given. Homework – a percentage, A level grade and Formative feedback provided.											
Physical Chemistry 1. NMR Spectroscopy 2. Chromatography Organic Chemistry 1. Organic Analysis - continued 2. Optical Isomerism Required practical 6 - Tests for alcohol, aldehyde, alkene and carboxylic acid.	End of topic tests - A level grading and formative feedback given. Summer 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%;">Nuclear Magnetic Resonance</td> <td style="width: 50%;">Plane Polarising Light</td> </tr> <tr> <td>Infra-red Spectroscopy</td> <td>Chemical Shift</td> </tr> <tr> <td>Racemic Enantiomers</td> <td>Splitting Patterns</td> </tr> <tr> <td>TLC</td> <td></td> </tr> <tr> <td>Ninhydrin</td> <td></td> </tr> </table>		Nuclear Magnetic Resonance	Plane Polarising Light	Infra-red Spectroscopy	Chemical Shift	Racemic Enantiomers	Splitting Patterns	TLC		Ninhydrin	
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