

Subject and year group:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
Topic/Unit to be studied	3.1 Physical Chemistry 3.3.1-3.3.9 Organic Chemistry		3.2 Inorganic Chemistry 3.3.10-16 Organic Chemistry		Revision
Subject Content Outline	Physical Chemistry <ul style="list-style-type: none"> Thermodynamics Rate equations Organic Chemistry <ul style="list-style-type: none"> Optical isomerism Aldehydes and Ketones 	Physical Chemistry <ul style="list-style-type: none"> Equilibrium Constant Electrode Potentials Organic Chemistry <ul style="list-style-type: none"> Carboxylic acids and derivatives 	Inorganic Chemistry <ul style="list-style-type: none"> Properties of Period 3 Transition metals Reactions of ions in aqueous solution Organic Chemistry <ul style="list-style-type: none"> Aromatic Chemistry Amines Polymers Amino acids, Proteins and DNA 	Physical Chemistry <ul style="list-style-type: none"> Acids and bases Organic Chemistry <ul style="list-style-type: none"> Organic Synthesis NMR Chromatography 	
Aims/Assessment Objectives	AO1: Demonstrate knowledge and understanding of scientific ideas, processes, techniques and procedures. AO2: Apply knowledge and understanding of scientific ideas, processes, techniques and procedures: <ul style="list-style-type: none"> In a theoretical context In a practical context When handling qualitative data When handling quantitative data AO3: Analyse, interpret and evaluate scientific information, ideas and evidence, including in relation to issues, to: <ul style="list-style-type: none"> Make judgements and reach conclusion Develop and refine practical design and procedures. 				
Assessment	Mid- topic assessment, end of topic assessment, required practical's	Mid- topic assessment, end of topic assessment, required practical's November PPE	Mid- topic assessment, end of topic assessment, required practical's January PPE	Mid- topic assessment, end of topic assessment, required practical's	Mid- topic assessment, end of topic assessment, required practical's

					April PPE
Cross curricular opportunities	Mathematics, ICT, English, History, Geography, Food Technology, Design Technology, PE, Citizenship				
Social, Moral, Spiritual, Cultural	Wider issues (for example, spiritual, moral, ethical, social, legal, sustainable development, economic and cultural issues), including those relevant to the education of candidates at Key Stage 5, have been taken into account when preparing this specification. They will only form part of the assessment requirements where they are relevant to the specific content of the specification.				
Homework	Exam questions, practical write ups, QWC questions, targeted worksheets, research tasks	Exam questions, practical write ups, QWC questions, targeted worksheets, research tasks	Exam questions, practical write ups, QWC questions, targeted worksheets, research tasks	Exam questions, practical write ups, QWC questions, targeted worksheets, research tasks	Exam questions, practical write ups, QWC questions, targeted worksheets, research tasks