

HALF TERM

CHRISTMAS

Spring Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	HALF TERM	
Topic	Chemistry Paper 2 Revision							Year 11 Mock Exams
Challenge Objective and Content (for all learners)	C6 The Rate and Extent of Chemical Change C7 Organic Chemistry C8 Chemical Analysis C9 Chemistry of the Atmosphere C10 Using Resources							
Inspire Opportunities	Grade 7-9 questions.							
Assessment Opportunities	End of Topic Tests and Year 11 Mock Exams							

	Week 1	Week 2	Week 3	Week 4	Week 5	EASTER
Topic	C1 Atomic Structure and the Periodic Table Revision		C2 Bonding, Structure, and the Properties of Matter Revision		C3 Quantitative Chemistry Revision	
Challenge Objective and Content (for all learners)	C1 – Describe the development and structure of the atom and periodic table. -Represent chemical reactions as word and symbol equations.		C2 – Explain how atoms are held together in structures and describe their properties. -Describe and draw ionic, covalent and metallic bonding. -Draw dot and cross diagrams for ionic and covalent bonds. -Describe the structures of covalent and ionic bonds, including giant structures.		C3 – Use chemical equations as a way to communicate chemical ideas. -Define ‘conservation of mass’. -Calculate relative formula mass and percentage mass. -Investigate mass changes. -Make estimations of uncertainty. -Understand the term ‘moles’ and calculate moles in a given mass of a substance. -Calculate percentage yield.	
Inspire Opportunities	Grade 7-9 questions.					
Assessment Opportunities	Exam Questions					

Summer Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	HALF TERM	
Topic	C3 Quantitative Chemistry Revision	C4 Chemical Changes Revision		C5 Energy Changes Revision		GCSE Exams		
Challenge Objective and Content (for all learners)	C3 – Use chemical equations as a way to communicate chemical ideas. -Define ‘conservation of mass’. -Calculate relative formula mass and percentage mass. -Investigate mass changes. -Make estimations of uncertainty. -Understand the term ‘moles’ and calculate moles in a given mass of a substance. -Calculate percentage yield.	C4 – Investigate and predict chemical changes in substances -Explain oxidation and reduction in terms of loss or gain of oxygen. -Experiment and describe reactions of metals with water and dilute acids. -Interpret and evaluate metal extraction processes. -Explain oxidation and reduction in terms of loss and gain of electrons. -Write ionic equations for displacement reactions. -Explain reactions of acids with metals. -Predict products from given reactants. -Use the pH scale to identify acidic or alkaline solutions. -Describe and explain the process of electrolysis. -Write half equations.		C5- Explain how the interaction of particles often involves transfers of energy. -Describe the differences between exothermic and endothermic reactions. -Draw and analyse simple reaction profiles. -Calculate the energy transferred in chemical reactions. -Describe the effects of changing conditions on a system at equilibrium can be predicted using Le Chatelier’s Principle.				
Inspire Opportunities	Grade 7-9 questions.							
Assessment Opportunities	GCSE Exams							

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	SUMMER
Topic	GCSE Exams and Study Leave						
Challenge Objective and Content (for all learners)							
Inspire Opportunities							
Assessment Opportunities	GCSE Exams						