

Week	2018-19	Topic area	Lesson title	Practicals	Other information
1	03/09/2018	C10 Electrolytic processes	Sc10a: Electrolysis Sc10b: Products of electrolysis	Sc10a: Electrolysis Suggested practical 1: Electrolysis of water in a Hofmann (testing for hydrogen and oxygen); Suggested practical2: Electroplating	CORE PRACTICAL: Electrolysis of copper sulfate solution
3	17/09/2018	C9 Calculations involving masses	SC9a: Masses and empirical formulae SC9a: Masses and empirical formulae SC9b: Conservation of mass	Determine the empirical formula of a simple compound from masses: Copper and oxygen Demonstrate the law of conservation of mass with a precipitation reaction. Investigate the decomposition of copper carbonate. Investigate mass changes before and after reactions.	
5	01/10/2018	C11 Obtaining and using metals	SC9c: Moles SC11a: Reactivity SC11b: Ores	SC11a: Reactivity (redox) SC11b: Ores (biological methods)	Reactivity of metals: metal and acid Displacement of metals: Zinc and copper sulfate (other metals) Demo: ores; Practical extraction with carbon
7	15/10/2018		SC11c: Oxidation and reduction SC11d: Life cycle assessment and Recycling		
Oct half term		C12 Reversible Reactions and Equilibria	SC12a Dynamic Equilibrium	SC12a Dynamic Equilibrium	Demo: heat ammonium chloride; nitrogen dioxide
9	05/11/2018	C13 Transition metals, alloys and corrosion	SC13a: Transition metals SC13b: Corrosion SC13c: Electroplating SC13d: Alloying SC13e: Uses of metals and their alloys		Demo: rusting in different conditions (water, oil, air, boiled water etc)
11	19/11/2018		REVISION: 9/10/11/12/13 TEST: 9/10/11/12/13		
13	03/12/2018	C17 Groups in the periodic table	SC17a: Group 1 SC17b: Group 7 SC17c: Halogen reactivity	SC17c: Halogen reactivity	Demo: sodium, lithium and potassium + universal indicator Demo: chlorine, bromine and iodine + blue litmus paper Demo: iron in chlorine Practical: halogen displacement reactions
15	17/12/2018		SC17d: Group 0 SC18a: Rates of reaction	SC18a: Rates of reaction	Practical: Marble chips and hydrochloric acid in scales; magnesium and sulfuric acid with gas syringes Practical: investigating volumes of gas produced (up side down measuring cylinder)
Christmas		C18 Rates of reaction	SC18b: Factors affecting reaction rate	SC18b: Factors affecting reaction rate	Core Practical: Investigating reaction rates (thiosulfate)
16	07/01/2019	Year 10 exams?			
17	14/01/2019	Year 10 exams? Year 10 exams? Year 10 exams?	SC18c: Catalysts and activation energy SC19a: Exothermic and endothermic reactions	SC19a: Exothermic and endothermic reactions	Practical: hydrogen peroxide and manganese dioxide Practical: exo/endo reactions
19	28/01/2019	C19 Heat energy changes in chemical reactions	SC19b: Energy changes in reactions SC19b: Energy changes in reactions (bond energy calculations) REVISION: 17/18/19		
21	11/02/2019	C20 Fuels	SC20a: Hydrocarbons in crude oil and natural gas SC20b: Fractional distillation of crude oil TEST REVIEW: 17/18/19 TEST: 17/18/19	SC20b: Fractional distillation of crude oil	Demo: crude oil; Practical: molymod Demo: fractional distillation of crude oil
Feb half term			SC20c: The alkane homologous series SC20c: The alkane homologous series		
23	04/03/2019		SC20d: Complete and incomplete combustion SC20d: Complete and incomplete combustion		Demo: investigate combustion
25	18/03/2019		SC20e: Combustible fuels and pollution SC20e: Combustible fuels and pollution		
		C21 Earth and atmospheric science	SC20f: Breaking down hydrocarbons SC20f: Breaking down hydrocarbons		
27	01.04.19		SC21a: The early atmosphere SC21b: A changing atmosphere SC21c: The atmosphere today SC21d: Climate change		Practical: testing for oxygen Demo: burning phosphorous. Practical: burning candle
Easter					
29	29/04/2019				

		REVISION: 20/21
		TEST: 20/21
31	13/05/2019	Revision 9/10/11/12/13 Mock revision 17/18/19
		TEST REVIEW: 20/21
May half term		Mock revision 20/21 Mock revision
33	03/06/2019	Mock revision Mock revision Mock revision Mock revision
35	17/06/2019	YEAR 10 MOCKS YEAR 10 MOCKS YEAR 10 MOCKS YEAR 10 MOCKS
37	01/07/2019	C22 Hydrocarbons SC22a: Alkanes and alkenes MOCK REVIEW LESSON SC22b: Reactions of alkanes and alkenes