Scope and Sequence Document for: IGCSE Chemistry

Tutor	Ann Humphreys		
Tutor qualifications:	B Sc (Hons) Chemistry, Lancaster PGCE	Exams Y10 – week 38 2021 Y11 – week 23 2022	IGCSE Chemistry CAIE 0620
Resources required:	Cambridge IGCSE Chemistry Coursebook, (2014), Richard Harwood & Ian Lodge, ISBN 9781107615038, CUP; Cambridge IGCSE® Chemistry Revision Guide, (2015), R Norris, ISBN - 9781107697997, CUP Basic chemistry set.		

Module No.	NSW week No.	Week beginning Monday the:	Contents of study
1	1	05/09/22	States & Separations – a more in depth look at work you may be familiar with on States of Matter and Kinetic theory, plus Separations of various types of Mixtures
	2	12/09/22	
	3	19/09/22	Separations of various types of wixtures
	4	26/09/22	Desir Observitore Atoms Malassalas Flamanta Communida
2	5	03/10/22	Basic Chemistry – Atoms, Molecules, Elements, Compounds, more movement of particles looking at Brownian motion and Diffusion. Writing Chemical formula and Balancing equations
	6	10/10/22	There are 2 assignments for this Module
	7	17/10/22	There are 2 assignments for this Module
	8	24/10/22	Half Term
3	9	31/10/22	Air contact the Contact condition at the Contact condition and the Contact condition and the condition
	10	07/11/22	 Air, water & Land – the Carbon cycle and Limestone. Air and Oxygen, including atmospheric pollution. Water, its purification its uses and its availability
	11	14/11/22	its uses and its availability
12 21/11/22 13 28/11/22 14 05/12/22 15 12/12/22	21/11/22		
	13	28/11/22	Atomic Structure & the Periodic Table – the structure of an Atom,
	14	05/12/22	Isotopes, Electron arrangements. The structure of the Periodic table and looking at some important Groups
	15	12/12/22	
	16	19/12/22	Christmas Holiday
	17	26/12/22	Christmas Holiday
	18	02/01/23	Christmas Holiday

5	19	09/01/23	
	20	16/01/23	Metals – Metal reactivity, metal uses and extraction focussing of Iron. The chemistry of Group 1 metals
	21	23/01/23	
	22	30/01/23	
6	23	06/02/23	Bonding & Structure – the ways that atoms bond together and why they do so in a particular way. A look at the structures formed from the various types of bonding
	24	13/02/23	Tormed from the various types of bonding
	25	20/02/23	Half Term
6	26	27/02/23	Bonding & Structure (Cont.)
	27	06/03/23	
7	28	13/03/23	Acids, bases & Salts – A more in depth look at acids, including acid theory. Neutralisation techniques including Titrations and the
7	29	20/03/23	formation of Salts. Some identification techniques, lonic equations
	30	27/03/23	
	31	03/04/23	Easter Holiday
	32	10/04/23	Easter Holiday
	33	17/04/23	Easter Holiday
8	34	24/04/23	Practical considerations 1 – A look at apparatus, measuring,
0	35	01/05/23	recording and drawing graphs. A look at some Paper 6 questions
	36	08/05/23	Revise & catch up
	37	15/05/23	Nevise & Calcii up
	38	22/05/23	Exam
	39	29/05/23	Half Term
	40	05/06/23	
9	41	12/06/23	Carbon 1 – Hydrocarbon families, their structure & naming, Fuels, looking at the distillation of crude oil and uses of each
	42	19/06/23	fraction
	43	26/06/23	
NSW Summer holiday period – 3 July – 4 September 2023			
10	1	04/09/23	Chemical maths 1– The CORE work only including Atomic mass,
10	2	11/09/23	formula mass, reacting mass, % yield,
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11	11	3	18/09/23	Physical Chemistry – Pates of reaction, Chemical operaction	
12		4	25/09/23	Physical Chemistry – Rates of reaction, Chemical energetics an reversible reactions and Equilibrium	
12		5	02/10/23		
16/10/23 empirical formula, moles, molar volume, molar solutions	12	6	09/10/23		
12 9 30/10/23 Chemical maths 2 (Cont.) 11 13/11/23 12 20/11/23 13 27/11/23 14 04/12/23 15 11/12/23 Revise & catch up 16 18/12/23 Christmas Holiday 17 25/12/23 Christmas Holiday 18 01/01/24 Christmas Holiday 19 08/01/24 Identification – bring all identification of gases, cations, anions, metals together 22 20/124 Nitrogen & Sulphur – Ammonia, Nitrates, Fertilisers. Sulfuric acid production. Properties of Sulfuric acid production. Properties of Sulfuric acid production. Properties of Sulfuric acid 19 08/02/24 Half Term 26 26/02/24 Half Term 26 26/02/24 Carbon 2 – More Organic families, the Alcohols, Carboxylic acids, Esters. Polymers, synthetic and natural 17 29 18/03/24 Practical Considerations 2 – Looking at Paper 6 questions 30 25/03/24 Easter Holiday 31 01/04/24 Easter Holiday 33 15/04/24 Easter Holiday 34 22/04/24		7	16/10/23	empirical formula, moles, molar volume, molar solutions	
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13		11	13/11/23		
13	13	12	20/11/23		
15	15	13	27/11/23	Aluminium, more ionic equations. REDOX	
16		14	04/12/23		
17		15	11/12/23	Revise & catch up	
18		16	18/12/23	Christmas Holiday	
19		17	25/12/23	Christmas Holiday	
14		18	01/01/24	Christmas Holiday	
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25		23	05/02/24	Revise & catch up	
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43	24/06/24	