

Scope and Sequence Document for: IGCSE Chemistry

Tutor	Aileen Seymour		
Tutor Qualifications	BSc Biology & Chemistry (London), PGCE (Oxford)	IGCSE/A level Exam board & Specification No.	IGCSE Chemistry CAIE 0620 / 0971 (UK)
Resources Required	<p>Cambridge IGCSE Chemistry Coursebook; Harwood R, Lodge I & Millington C, 5th Edition, 2021. (ISBN: 9781108951609)</p> <p>Cambridge IGCSE Chemistry Workbook; Harwood R, Lodge I & Wooster M, 5th Edition, 2021. (ISBN: 9781108948333)</p>		

Module No.	NSW week No.	Week beginning Monday the:	Contents of study
1	1	04/09/23	1. STATES OF MATTER States, Kinetic particle theory
2	2	11/09/23	Mixtures and Diffusion
3	3	18/09/23	2. ATOMIC STRUCTURES Atoms, Elements and Isotopes
4	4	25/09/23	Electronic configurations
5	5	02/10/23	3. PERIODIC TABLE Classifying the elements, group 1
6	6	09/10/23	Groups 7 and 8; Trends across a period
7	7	16/10/23	PRACTICAL SKILLS 1
	8	23/10/23	Half Term
8	9	30/10/23	4. CHEMICAL BONDING Non-metallic substances and Covalent bonding
9	10	06/11/23	Ions and Ionic bonding
10	11	13/11/23	Giant structures
11	12	20/11/23	REVISION, CONSOLIDATION TP 1-4
12	13	27/11/23	5. CHEMICAL FORMULAE AND EQUATIONS Chemical names and Formulae
13	14	04/12/2023	Chemical equations for reactions
14	15	11/12/2023	Relative masses of atoms and molecules
	16	18/12/2023	Christmas Holiday
	17	25/12/2023	Christmas Holiday

	18	01/01/2024	Christmas Holiday
15	19	08/01/2024	6. CHEMICAL CALCULATIONS Mole and Avogadro's constant
16	20	15/01/2024	Mole and chemical equations
17	21	22/01/2024	Moles and solution chemistry
18	22	29/01/2024	7. ELECTROCHEMISTRY Types of conductivity and Electrolysis of Molten Compounds
19	23	05/02/2024	Electrolysis of solutions and Hydrogen as fuel
20	24	12/02/2024	REVISION, CONSOLIDATION TP 5-7
	25	19/02/2024	Half Term
21	26	26/02/2024	PRACTICAL SKILLS 2 Experimental Design
22	27	04/03/2024	8. CHEMICAL ENERGETICS Physical and chemical changes, Exothermic/Endothermic part 1
23	28	11/03/2024	Exothermic/Endothermic part 2
24	29	18/03/2024	9. RATES OF REACTION Factors affecting rates
25	30	25/03/2024	Catalysts and Collision theory of reaction rate
	31	01/04/2024	Easter Holiday
	32	08/04/2024	Easter Holiday
	33	15/04/2024	Easter Holiday
26	34	22/04/2024	10. REVERSIBLE REACTIONS AND EQUILIBRIUM Reversible reactions
27	35	29/04/2024	Haber and Contact processes, Fertilisers
28	36	06/05/2024	11. REDOX REACTIONS Combustion, oxidation, reduction and redox
29	37	13/05/2024	Redox reactions
30	38	20/05/2024	REVISION, CONSOLIDATION TP 8-11
	39	27/05/2024	Half Term
31	40	03/06/2024	12. CHEMICAL ANALYSIS Identifying cations
32	41	10/06/2024	Identifying anions and gases
33	42	17/06/2024	REVISION OF ALL TOPICS/PAST PAPER QUESTIONS
34	43	24/06/2024	End of Year 10 Exam
35		Bonus summer lesson	PRACTICAL SKILLS 3 Separation and Purification
36		Bonus summer lesson	Review, Famous Chemists and Discoveries - Presentations

NSW Summer holiday period – 1 July – 30 August 2024			
37	1	02/09/2024	13. ACIDS AND BASES Nature of acids and bases
38	2	09/09/2024	Characteristic reactions of acids, Titration
39	3	16/09/2024	14. PREPARATION OF SALTS Importance of salts
40	4	23/09/2024	Preparation of salts
41	5	30/09/2024	15. CHEMISTRY OF THE ENVIRONMENT Air
42	6	07/10/2024	CO ₂ , CH ₄ and climate, Water
43	7	14/10/2024	REVISION, CONSOLIDATION TP 13-15
	8	21/10/2024	Half Term
44	9	28/10/2024	16. METALLIC ELEMENTS AND ALLOYS Properties of metals, Uses of metals
45	10	04/11/2024	Alloys
46	11	11/11/2024	17. REACTIVITY OF METALS Metal reactivity series
47	12	18/11/2024	Metal displacement reactions
48	13	25/11/2024	18. EXTRACTION AND CORROSION OF METALS Metal extraction
49	14	02/12/2024	Corrosion of metals
50	15	09/12/2024	REVISION, CONSOLIDATION TP 16-18
	16	16/12/2024	Christmas Holiday
	17	23/12/2024	Christmas Holiday
	18	30/12/2024	Christmas Holiday
51	19	06/01/2025	19. INTRODUCTION TO ORGANIC CHEMISTRY Names and formulae of organic compounds
52	20	13/01/2025	Structural formula, homologous series and isomerism
53	21	20/01/2025	20. REACTIONS OF ORGANIC COMPOUNDS Characteristic reactions of different homologous series
54	22	27/01/2025	Ethanol, Carboxylic acids and esters
55	23	03/02/2025	21 PETROCHEMICALS AND POLYMERS Petroleum and its products
56	24	10/02/2025	Polymers, Plastics
	25	17/02/2025	Half Term
57	26	24/02/2025	REVISION, CONSOLIDATION TP 19-21
58	27	03/03/2025	PRACTICAL SKILLS 4 Chromatography
59	28	10/03/2025	MOCK EXAM

60	29	17/03/2025	REVISION / PAST PAPERS
	30	24/03/2025	
	31	31/03/2025	Easter Holiday
	32	07/04/2025	Easter Holiday
	33	14/04/2025	Easter Holiday
	34	21/04/2025	
	35	28/04/2025	
	36	05/05/2025	
	37	12/05/2025	
	38	19/05/2025	
	39	26/05/2025	Half Term
	40	02/06/2025	
	41	09/06/2025	
	42	16/06/2025	
	43	23/06/2025	