

Year 10 Long Term Scheme of Learning 2025-26

Subject: Chemistry

HELSBY

High School



Achieving Success
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Date	Unit(s)
	Chemistry Separates
01/09/2025	C2 Structure, Bonding, & the Properties of Matter Key ideas: - States of matter - Chemical bond – Ionic, covalent and metallic - Properties of ionic compounds - Properties of small molecules - Properties of giant covalent compounds eg diamond & graphite - Properties of metals and alloys - Nanoparticles – inc graphene & fullerenes
08/09/2025	
15/09/2025	
22/09/2025	
29/09/2025	
06/10/2025	
13/10/2025	
20/10/2025	
03/11/2025	C4 Chemical Reactions – reactions of acids - pH and neutralisation reactions. - Required Practical – Making Soluble Salts C4'Chemical Reactions' – electrolysis Key ideas: - Ionic compounds can be split into elements when molten or in solution using electricity - Aluminium extraction using electrolysis - Required Practical –'Electrolysis of aqueous solutions' C5 'Energy Changes' Key ideas: - Endothermic & exothermic reactions - Required Practical – 'Temperature changes' - Reaction profiles & bond energy - Batteries & fuel cells
10/11/2025	
17/11/2025	
24/11/2025	
01/12/2025	
08/12/2025	
15/12/2025	
05/01/2026	
12/01/2026	Chemistry Assessment
19/01/2026	C3 'Quantitative Chemistry' Key ideas:
26/01/2026	

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02/02/2026	- Balancing equations - Relative formula mass - Amount of substance – moles - Concentration of solutions - Percentage yield - Atom economy
09/02/2026	
23/02/2026	C3 'Quantitative Chemistry'
02/03/2026	Key ideas:
09/03/2026	- Gas Volumes - Required Practical – 'Titrations'
16/03/2026	C6 'Rate & Extent of Chemical Reactions' – rate of reaction
23/03/2026	
	Key ideas:
30/03/2026	- Measuring rate of reaction methods - Limiting reactants - Factors affecting rates
20/04/2026	C6 'Rate & Extent of Chemical Reactions' – rate of reaction
27/04/2026	
	Key ideas:
04/05/2026	- Required Practical – Disappearing Cross - Required Practical – Measuring a gas volume - Graphs & tangents
11/05/2026	Collision theory & catalysts
	C1 'The Periodic Table'
	Key ideas:
18/05/2026	Transition metals – catalysts
	C6 'Rate & Extent of Chemical Reactions' - equilibria
	Key ideas:
	- Reversible reactions & equilibrium - Effect of changing reaction conditions eg temperature, pressure and concentration
01/06/2026	<u>End of Year Exams</u>
08/06/2026	C7 'Organic Chemistry'
15/06/2026	

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22/06/2026	Key ideas: • Fractional distillation of crude oil • Alkanes and Alkenes (Cracking) • Combustion of fuels • Reactions of Alkenes
29/06/2026	
06/07/2026	
13/07/2026	