## Year 10 Long Term Scheme of Learning 2023-24 Separate Science - Chemistry



Date	Unit(s)
	Chemistry Separates
4/0/22	C2 Structure, Bonding, & the Properties of Matter
4/9/23	Key ideas:
11/9/23	• States of matter
18/9/23	Chemical bond – Ionic, covalent and metallic
25/9/23	Properties of ionic compounds
2/10/23	Properties of small molecules
09/10/23	Properties of giant covalent compounds eg diamond & graphite
16/10/23	Properties of metals and alloys
10/10/23	Nanoparticles – inc graphene & fullerenes
30/10/23	C4 Chemical Reactions – reactions of acids
6/11/23	pH and neutralisation reactions.
13/11/23	Required Practical – Making Soluble Salts
20/11/23	C4'Chemical Reactions' – electrolysis
27/11/23	Key ideas:
4/12/23	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'
11/12/23	Key ideas:
11/12/23	Endothermic & exothermic reactions
	Required Practical – 'Temperature changes'
	Reaction profiles & bond energy
	Batteries & fuel cells
1/1/24	<u>Chemistry Assessment</u>
8/1/24	C2 \Over at it at ive Chemister.
15/1/24	C3 'Quantitative Chemistry'
22/1/24	Key ideas:

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20/4/24	Delivering a south of the second of the seco
29/1/24	Balancing equations
5/2/24	Relative formula mass
	Amount of substance – moles
12/2/24	Concentration of solutions
12/2/24	Percentage yield
	Atom economy
26/2/24	C3 'Quantitative Chemistry'
4/3/24	Key ideas:
11/3/24	Gas Volumes
18/3/24	Required Practical –'Titrations'
,_,	C6 'Rate & Extent of Chemical Reactions' - rate of reaction
	Key ideas:
	Measuring rate of reaction methods
25/3/24	Limiting reactants
	Factors affecting rates
15/4/24	C6 'Rate & Extent of Chemical Reactions' – rate of reaction
22/4/24	Key ideas:
29/4/24	Required Practical – Disappearing Cross
6/5/24	Required Practical – Measuring a gas volume
13/5/24	Graphs & tangents
	Collision theory & catalystsC1 'The Periodic Table'
	Key ideas:
	Transition metals – catalysts
	C6 'Rate & Extent of Chemical Reactions' - equilibria
20/5/24	Key ideas:
	Reversible reactions & equilibrium
	Effect of changing reaction conditions eg temperature, pressure and concentration
3/6/24	End of Year Exams
10/6/24	
17/6/24	C7 'Organic Chemistry'
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24/6/24	Key ideas:
1/7/24	Fractional distillation of crude oil
8/7/24	Alkanes and Alkenes (Cracking)
	Combustion of fuels
15/7/24	Reactions of Alkenes