

Year 10 Long Term Scheme of Learning 2025-26

Subject: Combined Science (Higher tier)

Date (w/b)	Exams	Biology	Chemistry	Physics (2025 / 2026)
01/09/2025		B4 Bioenergetics - B4.2 Aerobic Respiration - B4.2 Anaerobic Respiration - B4.2 Effects of exercise - B4.2 Metabolism B1 - Cells Required Practical 2 - Osmosis B2 Organisation - B2.3 Plant organs and tissues - B2.3 Plant transport - B1.3 Active Transport B4 Photosynthesis - B4.1 Photosynthesis - B4.1 Rate of Photosynthesis	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	P4 – Electric Circuits - P4.2 – Current & Charge - P4.3 – P.D & Resistance - P4.4 – Component characteristics P4.4 – Required Practical - P4.5 – Series circuits - P4.6 – Parallel circuits P2.4 – Required Practical (SHC) P5 – Electricity in the Home - P5.1 – Alternating current - P5.2 – Cables & plugs
08/09/2025				
15/09/2025				
22/09/2025				
29/09/2025				
06/10/2025				
13/10/2025				
20/10/2025				
03/11/2025		B4 Photosynthesis B4.1 Required Practical 5 – Effect of Light on Photosynthesis - B4.1 Limiting factors - B4.1 Use of Glucose B2 Organisation - B2.2 Non-communicable disease - B2.2 Coronary Heart Disease +treatment - B2.2 Cancer Required Practical Activity 4: pH and Amylase	C2 Structure, Bonding, & the Properties of Matter Key ideas: - Properties of giant covalent compounds eg diamond & graphite - Properties of metals and alloys C4 Chemical Reactions – reactions of acids - pH and neutralisation reactions. Required Practical 8 – Making Soluble Salts C4'Chemical Reactions' – electrolysis Key ideas:	P5 – Electricity in the Home - P5.3 – Electrical Power & P.D - P5.4 – Electrical Current & Energy transfer - P5.5 – Appliances & Efficiency Assessment Point 1 –> P1 – P5. P6 – Molecules & Matter - P6.1 – Density P6.1 – Required practical - P6.2 – States of matter - P6.3 – Changes of state - P6.4 - Internal energy
10/11/2025				
17/11/2025				
24/11/2025				
01/12/2025				
08/12/2025				
15/12/2025				

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			- Ionic compounds can be split into elements when molten or in solution using electricity - Aluminium extraction using electrolysis	
05/01/2026		B3 Infection and response (B1.1) Bacterial cells - B3.1 Bacteria and Viral diseases - B3.1 Fungal and Protista diseases - B3.1 Human defence systems	<u>Chemistry Assessment</u> C4'Chemical Reactions' – electrolysis Key ideas: Required Practical 9 –'Electrolysis of aqueous solutions' C5 'Energy Changes' Key ideas: Endothermic & exothermic reactions Required Practical – 10 'Temperature changes'	P6 - Molecules & Matter - P6.5 – Specific latent heat - P6.6 – Gas pressure & temperature P7 – Radioactivity - P7.1 – Atoms & radiation - P7.2 – Discovery of the nucleus - P7.3 – Changes in the nucleus - P7.4 – Alpha, Beta, Gamma - P7.5 – Activity & Half-life
12/01/2026				
19/01/2026				
26/01/2026				
02/02/2026				
09/02/2026				
23/02/2026		B3 Infection and response - B3.1 Vaccination - B3.1 Antibiotics, Painkillers Discovery and development of drugs B5 Homeostasis and Response - B5.2 Nervous system - Reaction time required practical	C5 'Energy Changes' Key ideas: - Reaction profiles & bond energy C3 'Quantitative Chemistry' Key ideas: - Balancing equations - Relative formula mass - Amount of substance – moles	P8 – Forces in balance - P8.1 – Vectors & Scalars - P8.2 – Force between objects - P8.3 – Resultant forces - P8.6 – Centre of mass - P8.8 – Parallelogram of forces - P8.9 – Resolution of forces
02/03/2026				
09/03/2026				
16/03/2026				
23/03/2026				
30/03/2026				
20/04/2026		- B5.1 + B5.3 Human endocrine system - B5.3 Control of blood glucose concentration - B5.3 Hormones in human reproduction	C3 'Quantitative Chemistry' Key ideas: - Amount of substance – moles - Concentration of solutions C6 'Rate & Extent of Chemical Reactions' – rate of reaction Key ideas: - Measuring rate of reaction methods - Limiting reactants Factors affecting rates	Assessment Point 2 –> P6 – P8. P9 – Motion - P9.1 – Distance – time graphs - P9.2 – Velocity & acceleration
27/04/2026				
04/05/2026				
11/05/2026				
18/05/2026				

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01/06/2026		Assessment Window 2 Revision B5 Homeostasis and Response - B5.3 Contraception B7 Ecology - B7.2 Sampling B7.2 Required Practical 7 – Sampling populations	End of Year Exams C6 'Rate & Extent of Chemical Reactions' – rate of reaction Key ideas: Required Practical 11a – Disappearing Cross Required Practical 11b – Measuring a gas volume - Graphs & tangents - Collision theory & catalysts	P9 – Motion - P9.3 – Velocity – time graphs - P9.4 – Analysing motion graphs
08/06/2026				
15/06/2026				
22/06/2026				
29/06/2026				
06/07/2026				
13/07/2026				