

Year 10 Long Term Scheme of Learning 2024-25

Subject: Combined Science – Foundation Tier



Date (w/b)	Exams	Biology	Chemistry	Physics
02/09/2024		B4 Bioenergetics <ul style="list-style-type: none"> B4.2 Aerobic Respiration B4.2 Anaerobic Respiration B4.2 Effects of exercise B4.2 Metabolism B1 - Cells <ul style="list-style-type: none"> Required Practical 2 - Osmosis B2 Organisation <ul style="list-style-type: none"> B2.3 Plant organs and tissues B2.3 Plant transport B1.3 Active Transport B4 Photosynthesis <ul style="list-style-type: none"> B4.1 Photosynthesis B4.1 Rate of Photosynthesis 	C2 Structure, Bonding, & the Properties of Matter Key ideas: <ul style="list-style-type: none"> States of matter Chemical bond – Ionic, covalent and metallic Properties of ionic compounds Properties of small molecules 	P4 – Electric Circuits <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> P5.1 – Alternating current P5.2 – Cables & plugs P5.3 – Electrical Power & P.D P5.4 – Electrical Current & Energy transfer P5.5 – Appliances & Efficiency
09/09/2024				
16/09/2024				
23/09/2024				
30/09/2024				
07/10/2024				
14/10/2024				
21/10/2024		<ul style="list-style-type: none"> B4.1 Required Practical 5 – Effect of Light on Photosynthesis B4.1 Limiting factors B4.1 Use of Glucose B2 Organisation <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Properties of giant covalent compounds eg diamond & graphite Properties of metals and alloys C4 Chemical Reactions – reactions of acids <ul style="list-style-type: none"> pH and neutralisation reactions. Required Practical 8 – Making Soluble Salts 	P6 – Molecules & Matter <ul style="list-style-type: none"> P6.1 – Density P6.1 – Required practical P6.2 – States of matter P6.3 – Changes of state P6.4 - Internal energy P6.5 – Specific latent heat P6.6 – Gas pressure & temperature
04/11/2024				
11/11/2024				
18/11/2024				
25/11/2024				
02/12/2024				
09/12/2024				
16/12/2024				

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06/01/2025		Assessment Window 1 Revision	C4 'Chemical Reactions' – electrolysis <i>Key ideas:</i> <ul style="list-style-type: none">Required Practical 9 – 'Electrolysis of aqueous solutions' C5 'Energy Changes' <i>Key ideas:</i> <ul style="list-style-type: none">Endothermic & exothermic reactionsRequired Practical 10 – 'Temperature changes'	P7 – Radioactivity <ul style="list-style-type: none">P7.1 – Atoms & radiationP7.2 – Discovery of the nucleusP7.3 – Changes in the nucleusP7.4 – Alpha, Beta, GammaP7.5 – Activity & Half-life Assessment Point 1 – P1 – P6.
13/01/2025	B3 Infection and response <ul style="list-style-type: none">(B1.1) Bacterial cellsB3.1 Bacteria and Viral diseasesB3.1 Fungal and Protista diseases			
20/01/2025				
27/01/2025				
03/02/2025				
10/02/2025				
24/02/2025		B3 Infection and response <ul style="list-style-type: none">B3.1 Human defence systemsB3.1 VaccinationB3.1 Antibiotics, PainkillersDiscovery and development of drugs	C5 'Energy Changes' <i>Key ideas:</i> <ul style="list-style-type: none">Reaction profiles C3 'Quantitative Chemistry' <i>Key ideas:</i> <ul style="list-style-type: none">Balancing equationsRelative formula massConcentration of solutions	P8 – Forces in balance <ul style="list-style-type: none">P8.1 – Vectors & ScalarsP8.2 – Force between objectsP8.3 – Resultant forcesP8.6 – Centre of mass
03/03/2025				
10/03/2025				
17/03/2025				
24/03/2025				
31/03/2025				
21/04/2025		B5 Homeostasis and Response <ul style="list-style-type: none">B5.2 Nervous systemB5.1 + B5.3 Human endocrine systemB5.3 Control of blood glucose concentrationB5.3 Hormones in human reproduction	C6 'Rate & Extent of Chemical Reactions' – rate of reaction <i>Key ideas:</i> <ul style="list-style-type: none">Measuring rate of reaction methodsFactors affecting rates	P9 – Motion <ul style="list-style-type: none">P9.1 – Distance – time graphsP9.2 – Velocity & accelerationP9.3 – Velocity – time graphsP9.4 – Analysing motion graphs
28/04/2025				
05/05/2025				
12/02/05				
19/05/2025				
02/06/2025		Assessment Window 2 Revision	C6 'Rate & Extent of Chemical Reactions' – rate of reaction <i>Key ideas:</i> <ul style="list-style-type: none">Required Practical 11a – Disappearing CrossRequired Practical 11b – Measuring a gas volumeGraphs & tangents	Assessment Point 2: <ul style="list-style-type: none">GCSE Physics Paper 1 (P1 – P7)
09/06/2025	B5 Homeostasis and Response <ul style="list-style-type: none">B5.3 Contraception			
16/06/2025				
23/06/2025	B7 Ecology <ul style="list-style-type: none">B7.2 Sampling			
30/06/2025				

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07/07/2025		<ul style="list-style-type: none">• B7.2 Required Practical 7 – Sampling populations	<ul style="list-style-type: none">• Collision theory & catalysts	
14/07/2025				