

Year 10 Long Term Scheme of Learning 2023-24
Combined Science – Foundation Tier

Date (w/b)	Exams	Biology	Chemistry	Physics
4/9/23		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 B4.1 Required Practical 5 – Effect of Light on 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 	P1 – Energy Stores & Transfers <ul style="list-style-type: none"> P1.1 – Changes in energy stores P1.2 – Conservation of energy P1.3 – Energy & Work P1.4 – Gravitational Potential Energy P1.5 – Kinetic & Elastic energy P1.6 – Energy dissipation P1.7 – Energy & efficiency P1.8 – Electrical appliances P1.9 – Electrical power
11/9/23				
18/9/23				
25/9/23				
2/10/23				
9/10/23				
16/10/23				
30/10/23		B4 Photosynthesis <ul style="list-style-type: none"> 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 	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 	P2 – Energy transfer by heating <ul style="list-style-type: none"> P2.1 - Energy transfer by conduction P2.2 - Infrared radiation P2.3 – More about IR radiation P2.4 – Specific Heat Capacity P2.5 – Heating & Insulating Buildings P3 – Energy resources <ul style="list-style-type: none"> P3.1 – Energy demands P3.2 – P3.3 – Energy resources P3.4 – P3.5 – Environment & Issues
6/11/23				
13/11/23				
20/11/23				
27/11/23				
4/12/23				
11/12/23				
1/1/24		Assessment Window 1 Revision B3 Infection and response <ul style="list-style-type: none"> (B1.1) Bacterial cells B3.1 Bacteria and Viral diseases B3.1 Fungal and Protista diseases 	C4'Chemical Reactions' – electrolysis Key ideas: <ul style="list-style-type: none"> Required Practical 9 –'Electrolysis of aqueous solutions' C5 'Energy Changes' Key ideas: <ul style="list-style-type: none"> Endothermic & exothermic reactions Required Practical 10 – 'Temperature changes' 	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
8/1/24				
15/1/24				
22/1/24				
29/1/24				
5/2/24				

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12/2/24				
26/2/24		B3 Infection and response <ul style="list-style-type: none"> B3.1 Human defence systems B3.1 Vaccination B3.1 Antibiotics, Painkillers Discovery 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 equations Relative formula mass Concentration of solutions 	P7 – Radioactivity <ul style="list-style-type: none"> 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
4/3/24				
11/3/24				
18/3/24				
25/3/24				
15/4/24				
22/4/24				
29/4/24				
6/5/24				
13/5/24				
20/5/24				
3/6/24		Assessment Window 2 Revision B5 Homeostasis and Response <ul style="list-style-type: none"> B5.3 Contraception B7 Ecology <ul style="list-style-type: none"> B7.2 Sampling B7.2 Required Practical 7 – Sampling populations 	C6 'Rate & Extent of Chemical Reactions' – rate of reaction <i>Key ideas:</i> <ul style="list-style-type: none"> Required Practical 11a – Disappearing Cross Required Practical 11b – Measuring a gas volume Graphs & tangents Collision theory & catalysts 	P9 – Motion <ul style="list-style-type: none"> P9.1 – Distance – time graphs P9.2 – Velocity & acceleration P9.3 – Velocity – time graphs P9.4 – Analysing motion graphs
10/6/24				
17/6/24				
24/6/24				
1/7/24				
8/7/24				
15/7/23				