Year 9 Long Term Scheme of Learning 2023-24



Science

Date (w/b)	Exams	Biology	Chemistry	Physics
4/9/23		 Ecosystems Aerobic respiration Anaerobic respiration Biotechnology Photosynthesis Leaves Investigating Photosynthesis Plant minerals 	 KS3 Types of Reactions. Chemical equations Combustion Thermal decomposition Conservation of mass Exothermic & endothermic reactions 	 KS3 Waves. Transverse & Longitudinal waves Frequency & Amplitude Electromagnetic Spectrum Transmission & Absorption Reflecting light Refracting light Colours of light
11/9/23				
18/9/23				
25/9/23				
2/10/23				
9/10/23				
16/10/23				
30/10/23		 B1 Cell Biology B1 Animal Cells (+ B2.1 Hierarchy) B1.1 Plant cells B1.1 Cell differentiation B1.1 Microscopy B1.1 Required practical 1 - Microscopy 	 C1 Atomic Structure Elements, compounds & mixtures How mixtures can be separated Writing simple formulae using element symbols Writing equations for the formation of compounds from elements 	 P1 - Energy Stores & Transfers 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
6/11/23				
13/11/23				
20/11/23				
27/11/23				
4/12/23				
11/12/23				
1/1/24		 Assessment week Stem Cells / Chromosomes Mitosis / Cell cycle Diffusion Diffusion Review of above 	 C1 Atomic Structure How the current model of the atom was developed What model do we use to represent an atom today What are isotopes? How electrons are arranged in an atom 	 P1 - Energy Stores & Transfers cont. P1.6 - Energy dissipation P1.7 - Energy & efficiency P1.8 - Electrical appliances P1.9 - Electrical power
8/1/24				
15/1/24				
22/1/24				

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29/1/24			
5/2/24			
12/2/24			
26/2/24	B2 Organisation • B2.2 Blood	C1 The Periodic Table Development of the Periodic Table	 P2 - Energy transfer by heating P2.1 - Energy transfer by conduction
4/3/24	 B2.2 Heart Structure B2.2 Gas Exchange B2.2 Blood Manuals 	How the modern Periodic Table is arranged Dependence of matches in the Depindic	 P2.2 - Infrared radiation P2.3 - More about IR radiation P2.4 - Grasifia Heat Consulty
11/3/24	B2.2 Blood Vessels	 Properties of metals in the Periodic Table Properties of metal and non-metal 	• P2.4 – Specific Heat Capacity
18/3/24		oxides	
25/3/24			
15/4/24	Human Digestive system	• Importance of the outer shell	 P2 - Energy transfer by heating cont. P2.5 - Heating & Insulating Buildings
22/4/24	 Required Practical Activity: Food Tests Properties on enzymes 	electrons in atomsGroup 0 elements the Noble GasesGroup 1 elements the Alkali Metals	 P3 – Energy resources P3.1 – Energy demands
29/4/24	 Human Digestive enzymes 	 Group 7 elements the Halogens and their displacement reactions 	 P3.1 - Energy demands P3.2 - P3.3 - Energy resources P3.4 - P3.5 - Environment & Issues
6/5/24		Explaining reaction trends and predicting reactivity.	
13/5/24			
20/5/24			
3/6/24	Assessment fortnight	End of Year Exam	P4 – Electric Circuits
10/6/24		C3 Quantitative Chemistry	 P4.2 – Current & Charge P4.3 – Potential difference &
17/6/24	Required Practical Activity: pH and Amylase	Writing formulae and balancing chemical equations	Resistance
24/6/24	Alliyidse	 Law of conservation of mass – key 	
1/7/24	Required Practical 7 – Sampling (another opportunity in Y10	concept	
8/7/24	Summer)		
15/7/24			

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