

SCIENCE Programme of Study (Year 10 2024-25)

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Wee	k 9	Week	Week 11	Week 12	Week 13	Week 14	Week 15		
Autumn 1 – 'Equality & Diversity'								Autumn 2 – 'Living in the Wider World'									
Subject Area Topic: Cells & Structures								Subject Area Topic: Evolution, Global Environment Issues & Electricity									
1. Animal cells Plant cells microscopes	2Specialised cells -DNA -Chromosome s	3Mitosis -Stem cells -Diffusi on	4Osmosis -States of matter -Atoms	mass	Conservation	7Atomic structure -electronic structure of atoms -properties of elements, metal , non-metals	8Group 1 Metals -group 7 elements -group 0	1. -Plant organi: -Trans on	cell sation	2Variation + evolution	3Genetic engineering -Fossils -Classification -Biodiversity + waste management	4Global warming -Deforestati on -Evolution o atmosphere	n f -Waste	-Series and parallel	7Electricity the home -Power of electrical items -National g		
Notes/Links/Ir	Notes/Links/Interleaving -Balanced Symbol equations ext. -Writing chemical formula for common compounds							Notes/Links/Interleavin 9 -Electrical Equations -Resistance graphs for different of the company				=					
	Spring 1 – 'The Circle of Life'								Spring 2 – 'Conflict'								
		Subject A	rea Topic: The Huma	an Body & Gene	tics		Subject Area Topic: Reactions - Acids, Disease & Medicine										
1Reproduction -Meiosis -X Y Chromosomes		3Abiotic and biotic factors -Adaptations -Carbon cycle -Water cycle	4Genetic diagrams -Family Tree and genetic screening	5Maintaining ecosystems biodiversity	6Finite and renewable resources -Recycling -Life cycle assessment s.	-Reactions o acids -Reactivity se	f r	2Reactions of metals -Electrolysis		3. -Enzymes - dige	stion -Hor	neostasis	5 -Endo	ocrine syste			
Notes/Links/Interleaving Additional Higher Content -Embryo screening -Classification changes				ges		Notes/Links/Interleaving				Interaction of different diseases Artificial hearts + valves							
Summer 1 — 'Health & Leisure' Subject Area Topic: Digestion, Circulation, Nervous System, Exercise						Summer 2 – 'Crime & Punishment' (CSI Themed curriculum) Subject Area Topic: Physics - Separation, Light, Laws, Forces											

l		3Health and diseases -Cancer -Risks in non-communicab le diseases	bacteria. -Developing	5Aerobic and anaerobic respiration	-	1Pure and impure -Formulations -Chromatography -	-Food tests	of light Electromagneti	and thinking distance	5. -Newtons 1 st law -Newtons 2 nd law	3 rd law -Acceleration	7. Elasticity and investigatin g springs
Notes/Links/Interleaving		Additional Higher Content -Antibiotic resistant bacteria				Notes/Links/Interleaving			Additional Higher Content Uniform acceleration Reaction time equation calculation			