



## Northumberland's P.R.U.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Autumn	Autumn 1 – ‘Equality & Diversity’								Autumn 2 – ‘Living in the Wider World’						
	Subject Area Topic: Lab Skills/Cells/Structures/Solids, Liquids, Gases/Compounds & Mixtures								Subject Area Topic: Plants/Food Chains/Light Sound						
	1. Lab skills + microscopes	2. Plant and animal cells + s	3. Specialised cells, multicellular and unicellular	4. Diffusion DNA Chromosomes	5. Inheritance Adaptation s	6. Solids, liquids gases + state changes	7. Compounds + mixtures.	8. Energy transfer	1. Plant nutrition+ seed production	2. Seed dispersal Plant reproduction Dependence on other organisms	3. Food chains food webs Extinction and preserving other species	4. -Space, sun and stars. -Gravity	5. Light waves, reflection, refraction, Colour	6. Sound waves and energy and speed of sound	7. Electrical circuits, circuit components, series and parallel.
	Notes/Links/Interleaving			Additional Higher Content Chemical formula Genetic engineering					Notes/Links/Interleaving		Additional Higher Content Cross pollinating Electricity equations / calculations				
Spring	Spring 1 – ‘The Circle of Life’						Spring 2 – ‘Conflict’								
	Subject Area Topic: The Human Body/Reproduction/Cycles						Subject Area Topic: Acids & Alkali’s/Reactions/Displacement/Forces & Motion								
	1. Growth + skeleton	2. Human reproduction Menstrual cycle	3. Having a baby + pregnancy	4. Recycling, Atmosphere, and climate	5. Carbon cycle	6. Rock cycle + Earth structure	1. Acid and alkali reactions + products	2. Reactions of acids with metals	3. Reactions of oxides with acids	4. Displacement reactions and products	5. Forces, motion and friction.				
	Notes/Links/Interleaving		Additional Higher Content Hormone additional info in menstrual cycle				Notes/Links/Interleaving		Additional Higher Content Balanced chemical equations Forces calculations using given equations (GCSE prep)						
Summer	Summer 1 – ‘Health & Leisure’						Summer 2 – ‘Crime & Punishment’ (CSI THEME)								
	Subject Area Topic: Food & Nutrition/Respiration/Health						Subject Area Topic: Science solving crime/Crime scenes/Science of Weapons								
	1. Nutrition, food groups vitamins and minerals	2. Consequences of unbalanced diet and health + related conditions + diseases	3. Digestion and healthy bacteria health	4. Smoking + related diseases / problems  Asthma	5. drugs effects on health.	6. Gas exchange and Aerobic respiration	1. Food tests/ blood tests mock up (CSI type theme)	2. Reactions of metal with air	3. Forces, elasticity and pressure	4. Separating mixtures	5. Properties of metals + non - metals	6. ‘Science of weapons’ ( acceleration, velocity, speed calculations )	7. Skeleton + muscles crime scene theme foot prints, joint movements		

	Notes/Links/Interleaving	Additional Higher Content Gas exchange further detail Equations/ balanced equations for Aerobic respiration	Notes/Links/Interleaving	Additional Higher Content Additional equations for pressure and forces Balanced chemical equations for metals reactions with air.
--	--------------------------	--	--------------------------	---