



Northumberland's P.R.U.

SCIENCE Programme of Study KS4 Year 11 (2025-26)

	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 1 – ‘Equality & Diversity’								Autumn 2 – ‘Living in the Wider World’						
	Subject Area Topic: Cells, Human Digestive System, Plants, Atoms, Periodic Table, Compounds								Subject Area Topic: Metals & Alloys, Ionic bonding, Covalent bonding and giant structures.						
	Cell specialisation Human digestive system	Enzymes Enzymes Prac. Heart + blood vessels	Blood Coronary Heart Disease	Plant tissue and organisms Photosynthesis	 Photosynthesis Prac. The atom and	electronic structure Periodic table structure	ASSESSMENT Group 1 Periodic table	 Group 7 Periodic table	Electron diagrams Chemical equations structure	Group 0 Periodic table Ionic bonding	 ionic compound properties.	 Covalent bonding	 Polymers Giant covalent structures	Assessment Metals and alloys	 Therapy week Chemistry overview
	Notes/Links/Interleaving			Additional Higher Content					Notes/Links/Interleaving		Additional Higher Content				
	Spring 1 – ‘The Circle of Life’							Spring 2 – ‘Conflict’							
	Subject Area Topic: Power, Forces, Speed & Velocity, Respiration, Reproduction, Sex Determination/Variation.							Subject Area Topic: Catalysts & Reactions, Distillation, Properties, Forces, Magnetism							
	Changes in energy Power and energy resources Elasticity Spring constant practical.	Speed and velocity Acceleration Newton's first law	Newton's second law Newton's third law	Forces and braking Stopping distance and reaction time Respiration	Reproduction ASSESSMENT	Meiosis Genetic inheritance Sex determination Variation	Hydrocarbons Fractional distillation Property of hydrocarbons and cracking	 Metal oxides and reactivity series.	Reaction profiles Rates of reaction-calculating rates of reaction Factors that affect the rate of a reaction.	Catalysts and reversible reactions Equilibrium Required practical rates of reaction.	ASSESSMENT	Collision theory and activation energy			

Notes/Links/Interleaving			Additional Higher Content				Notes/Links/Interleaving			Additional Higher Content			
Summer 1 – ‘Health & Leisure’						Summer 2 – ‘Crime & Punishment’ (CSI THEME)							
Subject Area Topic: Cath-up & Revision						Subject Area Topic: Examinations							
Extraction of metals and reduction. Exothermic and endothermic reactions	Homeostasis Human nervous system	Magnetic fields Electromagnetism		REVISION	REVISION	GCSE EXAMS							
Notes/Links/Interleaving		Additional Higher Content				Notes/Links/Interleaving			Additional Higher Content				