



Northumberland's P.R.U.

SCIENCE Programme of Study KS4 Year 11 (2026-27)

	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	asexual and sexual reproduction	Heart + blood vessels	Plant tissue and organisms	The atom and history of Atom.	electronic structure	CHECK POINT	Therapy Week + Catch up	Electron diagrams	Group 0 Periodic table	ionic compound properties.	Polymers	Metals and alloys	Assessment	Therapy week Chemistry overview
	Surface/ area ration		Blood	Respiration in plants		Periodic table structure	Group 1 Periodic table	Group 7 Periodic table	Chemical equations structure	Ionic bonding	Covalent bonding	Giant covalent structures			
	Exchange surfaces	classification	Coronary Heart Disease	Photosynthesis	Isotopes				Developm ent of Atomic structure			Carbon structures			
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	Speed and velocity	Newton's second law	Forces and braking	Reproduction	Genetic inheritance	Hydrocarbons		Reaction profiles		Catalysts and reversible reactions	ASSESSMENT	Collision theory and activation energy		
	Power and energy resources	Acceleration	Newton's third law	Stopping distance and reaction time	Meiosis	Sex determination	Fractional distillation	Metal oxides and reactivity series.	Rates of reaction-calculating rates of reaction		Equilibrium				
Elasticity	Newton's first law		Respiration		Cell cycle	Variation	Property of hydrocarbons and cracking		Factors that affect the rate of a reaction.		Required practical rates of reaction.				
					CHECK POINT		Distillation								

	Spring constant practical.												
	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	Early Earth Atmosphere Climate change Water treatment	Peat bogs Biodiversity Sampling quadrants.	REVISION	REVISION	GCSE EXAMS					
	Notes/Links/Interleaving		Additional Higher Content					Notes/Links/Interleaving			Additional Higher Content		