

	Theme	Topics	Knowledge
Year 10			
Autumn 1	The Human Body	Structure and function of the human body	Organisation of the human body Animal cell structures Specialised cells Organ Systems Respiration Lifestyle and Disease Infectious disease
Autumn 2	Elements mixtures and compounds	Composition of matter	States of matter Atoms Elements and compounds Forms of carbon Mixtures Separation techniques
Spring 1	Energy and Forces	Energy resources and transfers	Energy transfers in simple systems Waste energy and energy efficiency Reducing waste energy transfers Thermal conductivity Thermal insulation Renewable and non-renewable energy resources Contact and non-contact forces Work done by forces
Spring 2	Environment, evolution and inheritance	Feeding relationships	Green plants and algae as producers Photosynthesis Plant and animal adaptations Food chains and food webs Decay and recycling of nutrients Carbon Cycle

Summer 1	Chemistry in our world	Chemical reactions	Reactions of acids and metals Neutralisation reactions Combustion reactions Oxidation reactions Exothermic reactions Endothermic reactions Rate of chemical reaction
Summer 2	Electricity, magnetism and waves	Circuits	Electric current (dc and ac) Components and resistance Relationship between voltage, current and resistance Simple circuits UK mains electricity supply and safety Bar magnets and electromagnets