		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
	Title	Introduction to	Particle Model of	Cells and	Waves	Organisation	Gas exchange and
		Science at Holly Lodge	Matter	Reproduction			Respiration
	Curriculum	Health and Safety	States of matter	Animal and plant cells	Characteristics of	Cells, tissues, organs	Respiratory system
	Content	Scientific Diagrams	Changes of State	Organelles	waves	and organ systems	Breathing
		Obtaining results	Diffusion	Specialisation	Sound waves-	Digestion and the	Aerobic and
		Analysing data	Expansion and	Single-celled	frequency and	digestive system	anaerobic respiration
			contraction	organisms	amplitude	Skeletomuscular	
				Sexual and asexual	Measuring the speed	system and	
				reproduction	of sound	locomotion	
Year 7				Reproduction in			
				humans			
	Assessment	Core assessment PC1	DIRT Assessment	DIRT assessment	PC2 Assessment	DIRT assessment	DIRT assessment
	Title	Forces and Energy					
		Changes					
	Curriculum	Resultant Forces					
	Content	Weight					
		Work Done					
		Gravitational stores of					
		energy					
		Kinetic stores of					
		energy					
	Assessment	Core assessment PC1					

		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
	Title	Elements, Mixtures	Energy Transfers	Chemical Reactions	Photosynthesis and	Electricity and Energy	Ecology
		and compounds			plant organisation	Resources	
	Curriculum	Definitions	Conduction,	Reactions of acids and	Describing	Charge, current and	Ecosystems
	Content	Chemical formulae	convection and	bases	photosynthesis	potential difference	Energy flow though
		Characteristics of	radiation	Reactions of metals	Maximising	Series and parallel	habitats
		chemical and physical	Conservation of	Representing	photosynthesis	circuits	Adaptations
		changes	energy	reactions with	Plant organs and their	Making electricity	Competition
		Chemical equations	Transfers between	equations	functions	using different	Sampling habitats
00		Exo and endothermic	kinetic and		Reproduction in	resources	
a		reactions	gravitational stores of		plants		
Ye			energy		Seed dispersal		
	Assessment	PC1 Assessment		DIRT assessment	PC2 Assessment	DIRT assessment	DIRT assessment
	Title		Earth and Space				
	Curriculum		Rock classification				
	Content		Weathering				
			Rock cycle				
			Earth's place in space				
			Days and seasons				
	Assessment		DIRT Assessment				

		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
	Title	Atomic Structure and the Periodic Table	Kinematics and Moments	Variation, Genetics and Evolution	Waves and the Electromagnetic Spectrum	Bonding and structure	Cells and Microscopy
Year 9	Curriculum Content	Sub atomic particles The atomic model Electronic configuration Formation of lons Development of the periodic table Reactions and trends in groups 1 and 7 The noble gases	Equations of motion Distance time graphs Velocity time graphs Newton's Laws of motion Calculating moments Using levers	Inherited and environmental variation Distributions within characteristics Structure of DNA Simple genetics Theories of evolution Natural selection and Darwinian evolution	Transverse and longitudinal waves The wave equation The electromagnetic spectrum Uses and hazards of different ranges of the electromagnetic spectrum.	Ionic, covalent and metallic bonding Drawing dot and cross diagrams Ionic, covalent and metallic structures Linking properties of materials to their bonding and structures	Eukaryotic and prokaryotic cells Specialised cells Using microscopes to view cells Different types of microscope Magnification calculations
	Assessment	DIRT assessment	DIRT Assessment	PC1 Assessment	DIRT assessment	PC2 assessment	
	Title		Energy Transfers				Photosynthesis
	Curriculum Content		Transfers between energy stores Conservation of Energy Efficiency Transfers between kinetic, gravitational and elastic potential stores.				Photosynthesis equation Investigating factors affecting the rate of photosynthesis Limiting factors on the rate of photosynthesis
	Assessment						DIRT assessment

		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
	Title	Cell Division	Reaction Rates	Atomic Structure and	Electricity Part 1	Electricity Part 2	Chemical Changes
				Radioactivity			Part 2- Electrolysis
	Curriculum	Mitosis and meiosis	Factors affecting	Development of the	Circuit components	Energy resources for	Electrolysis of molten
	Content	The cell cycle	reaction rates	atomic model	Charge, potential	generating electricity	and dissolved ionic
		Differentiation	Collision theory	Subatomic particles	difference and		compounds
		Stem cells	Measuring and	and Isotopes	current.		Rules of ion discharge
			calculating rate of	Radioactive decay	Resistance and		Extraction of
			reaction	Properties of	different resistors		aluminium form
				radiation	Properties of series		alumina
				Radioactive half life	and parallel circuits		
				Hazards of radiation			
	Assessment	DIRT assessment	DIRT Assessment	DIRT assessment	DIRT assessment		Examination
	Title	Particle Theory of	Quantitative	Organisation Part 2		Chemical Changes	Infection and
10		matter	Chemistry				Response
	Curriculum	States of matter	Conservation of mass	Circulatory system		Reactions of acids	Pathogens and
Year	Content	Thermal energy stores	Balancing equations	Structure and		Reactivity Series	diseases
>		Internal energy	Calculating formula	function of the heart		Metal extraction	Immune system
		Changes of state	mass	Coronary artery		Reactions of acids and	Vaccinations
		Specific heat capacity		disease		bases	Developing new drugs
		Latent Heat		The impact of lifestyle		рН	
-	A		DIDT A	choices on health		DIDT	DIDT
	Assessment	0.11=	DIRT Assessment	DIRT assessment		DIRT assessment	DIRT assessment
	Title	Cell Transport	Organisation Part 1			Bioenergetics	
	Curriculum	Diffusion	Levels of organisation			Respiratory System	
	Content	Osmosis	Digestion and the			Aerobic and	
		Active Transport	digestive system			anaerobic respiration	
			Enzyme action			Effects of exercise on	
			Investigating factors			the cardiovascular	
			that affect the rate of			system	
	A a a a a a a a a a a		enzyme reaction				
	Assessment						

		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
	Title	Infection and	Homeostasis	Chemical Analysis and	Using Resources	Variation and	
		Response		Chemistry of the		Evolution Part 2	
				Atmosphere			
	Curriculum	Pathogens and	Nervous system and	Gas tests	Finite and renewable	Fossils and extinctions	
	Content	diseases	reflexes	Chromatography	resources	Theories of evolution	
		Immune system	Endocrine system	Atmosphere past and	Life cycle assessments	Classification	
		Vaccinations	Control of blood	present	Potable water		
		Developing new drugs	glucose	Pollution from human	Sewage treatment		
			Hormones and	activity			
			fertility	Greenhouse effect			
	Assessment	DIRT assessment	Mock Exams	DIRT assessment	DIRT assessment	GCSE Exams	
	Title	Organic Chemistry	Ecology Part 1	Waves	Magnets and		
					electromagnets		
	Curriculum	Crude oil and	Feeding relationships	Transverse and	Magnetic materials		
11	Content	fractional distillation	Adaptations	longitudinal waves	Simple magnet theory		
		Hydrocarbons	Competition for	The wave equation	and fields		
Year		Cracking and alkenes	resources	The electromagnetic	Electromagnets		
>		Polymers	Ecosystems	spectrum	Motor effect		
				Uses and hazards of			
				different ranges of			
				the electromagnetic			
-	Assessment		Mock Exams	spectrum.			
			IVIOCK EXAITIS		5 1 5 12		
	Title	Inheritance and			Ecology Part 2		
-	Curriculum	Evolution Part 1			Compuling habitata		
	Content	Sexual and asexual reproduction			Sampling habitats Human impact on		
	Content	Mitosis and meiosis			ecosystems		
		DNA and			ecosystems		
		chromosomes					
		Genetic crosses and					
		pedigree diagrams					
	Assessment	pediblee diagrams			PC3 Exam		
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