	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11
Biology	●Explore the	Plants:	Plants:	Plants:	Humankind -	Humankind –	Humankind -	Cells	Food and nutrition	Plant Growth	Natural selection	Exchange and transport in animals
	natural world	<ul> <li>Identify and</li> </ul>	<ul> <li>Observe and</li> </ul>	<ul> <li>Identify and</li> </ul>	<b>Human Body:</b>	<b>Human Body:</b>	Human Body:	<ul> <li>Identify features of</li> </ul>		Reactants and	and GM	Adaptations for transport
	around them,	name a variety of	describe how	describe the	●The digestive	<ul><li>◆Humans</li></ul>	•The heart, blood	animal and plant cells	<ul><li>What nutrients are</li></ul>	products of	●Evidence for	The circulatory system
	making	common wild and	seeds and bulbs	functions of	system is	reproduce	and blood vessels	•Identify life	and what they do	photosynthesis	human evolution	Structure of the heart
	observations	garden plants,	grow into mature	different parts of	responsible for	sexually when a	make up the	processes	•Components of a	Cellular respiration	●Understand	Components of blood
	and drawing	including	plants	flowering plants:	digesting food	female egg is	circulatory system.	Describe the organs	balanced diet	•Adaptation of	Darwin's theory	Aerobic and anaerobic respiration
	pictures of	deciduous and	Find out and	roots,	and absorbing	fertilised by a	●The circulatory	in some organ	•Steps in digestion and	plants	of evolution	Ecosystems and material cycles
	animals and	evergreen trees	describe how	stem/trunk,	nutrients and	male sperm	system moves	systems	the organs involved	Dependence of life	●The	What an ecosystem is
	plants.	•Identify and	plants need	leaves and	water.	producing	blood around the		(and the role of	on plants	classification	•Energy transfer
	To be able to	describe the basic structure of a	water, light and a	flowers	•The mouth,	offspring that	body.	Sexual reproduction	enzymes)		system	Abiotic factors
	name some objects found in	variety of	suitable	●Explore the	oesophagus,	are different	●The heart is a	in animals	<ul><li>Absorption</li></ul>	Genetics and	•The differences	Biotic factors
	the natural	common flowering	temperature to	requirements of	small intestine	from the	muscular organ	•Steps in animals	(adaptations of the	Evolution	between breeds	<ul> <li>Assessing pollution</li> </ul>
	world e.g.	plants, including	grow and stay	plants for life and	and large	parents.	that pumps blood	sexual reproduction	intestine)	●Heredity and	and varieties	Parasitism and mutualism
	conker, acorns,	trees.	healthy.	growth (air, light,	intestine are		around the body	(humans)		chromosomes	<ul> <li>Tissue culture</li> </ul>	<ul> <li>Biodiversity threats and conservation</li> </ul>
	pine cone,			water, nutrients	organs of the	<b>Living Things</b>	through the blood	Name the male and	Plants and their	<ul><li>Development of</li></ul>	<ul> <li>Genetic</li> </ul>	<ul><li>Food security</li></ul>
	chestnut	Humankind -	Humankind -	from soil, and	digestive system.	and their	vessels.	female reproductive	reproduction	DNA model	modification	<ul> <li>Material cycles (water, nitrogen an</li> </ul>
	<ul> <li>To know what</li> </ul>	Human Body:	Human Body:	room to grow)	Living Things and	<u>Habitats:</u>	<ul> <li>Blood vessels are</li> </ul>	organs	<ul> <li>Classification of</li> </ul>	<ul> <li>Variation between</li> </ul>	including benefits	<ul><li>■Rates of decomposition</li></ul>
	a plant needs to	●The basic body	Humans grow	and how they	their Habitats:	<ul> <li>Describe the</li> </ul>	tubes inside the	<ul> <li>Describe stages in</li> </ul>	plants	species	and drawbacks	
	grow and to be	parts are the head,	from baby to	vary from plant to	<ul> <li>Recognise that</li> </ul>	differences in	body.	pregnancy and birth	<ul><li>What biodiversity</li></ul>	<ul><li>Importance of</li></ul>	<ul><li>Fertilisers and</li></ul>	
	able to name	arms, legs, nose,	toddler to child to	plant	living things can	the life cycles of	●The three types of		means and why it is	biodiversity	biological control	
	some plants	eyes, ears, mouth,	teenager to adult	<ul><li>Investigate the</li></ul>	be grouped in a	a mammal, an	blood vessels are	Muscles and bones	important			
	To be able to	hands and feet.	to elderly.	way in which	variety of ways	amphibian, an	arteries, capillaries	<ul><li>Describe how</li></ul>	<ul><li>Types of plant</li></ul>	Key concepts in	Health and	
	categorise farm and wild	●The five senses		water is	<ul><li>Explore and use</li></ul>	insect and a bird	and veins.	muscles are used for	reproduction	Biology	<u>disease</u>	
	animals and	are hearing, sight,		transported	classification keys	<ul><li>Describe the</li></ul>	Arteries carry	breathing	<ul><li>Steps in plant</li></ul>	●Plant, animal and	<ul> <li>◆Communicable</li> </ul>	
	pets	smell, taste and		within plants	to help group,	life process of	blood from the	Describe how	reproduction	bacterial cells	and non-	
	To be able to	touch.		•Explore the part	identify and name	reproduction in	heart to the rest of	oxygen gets to		<ul> <li>Specialised cells</li> </ul>	communicable	
	name and	•Ears are used for		that flowers play	a variety of living	some plants and	the body.	muscles	Breathing and	<ul> <li>Using microscopes</li> </ul>	disease	
	describe some	hearing.		in the life cycle of	things in their	animals.	Capillaries	Structure and	<u>respiration</u>	●Enzymes	<ul> <li>Cardiovascular</li> </ul>	
	common bugs	<ul><li>Eyes are used to</li></ul>		flowering plants,	local and wider		connect arteries to	function of the	Describe aerobic	<ul><li>Testing foods</li></ul>	disease	
		see.		including	environment		veins. They allow	skeleton	respiration	●Transporting	●Types of	
		●The nose is used	Living Things and	pollination, seed	• Recognise that		oxygen and other		•Understand how	substances (diffusion,	pathogens and	
		to smell.	their Habitats:	formation and	environments can		nutrients to pass	<u>Ecosystems</u>	gases are exchanged in	osmosis and active	pathogenic	
		●The tongue is	Explore and     compare the	seed dispersal.	change and that this can		from the blood to the tissues, and	•Types of variation	the lungs	transport)	diseases	
		used to taste.	compare the differences	l li uma milita al			carbon dioxide and	•Adaptations of	●The role of blood in		•Virus life cycles	
		●The skin gives the	between things	Humankind –	sometimes pose dangers to living		other waste	plants and animals	carrying oxygen	Cells and control	• Defences	
		sense of touch.	that are living,	Human Body:  • Humans have a	things.		materials to pass	Daily and seasonal	Describe anaerobic	•Stages in mitosis	against disease	
			dead, and things	skeleton and	tilligs.		from the tissues to	changes and	respiration	•Growth in animals	•Steps in making	
			that have never	muscles for			the blood.	<ul><li>adaptations</li><li>Transfer of energy</li></ul>	Unicellular organisms	and plants ●Stem cells	medicine • Antibiotics and	
			been alive	movement,			Veins carry blood	in food chains	Unicellular organisms     Understand different	• The nervous system	monoclonal	
			Identify that	support and			from around the	iii ioou ciiaiiis	types of unicellular	including types of	antibodies	
			most living things	protecting			body back to the		organisms	nerves, reflex arc and	untiboules	
			live in habitats to	organs.			heart.		Understand the	synapse	Plant structures	
			which they are	Muscles are soft			●Blood is a		structure of	•Structure and	and functions	
			suited and	tissue made up of			substance that		microscopic fungi	function of the brain	•Recall the	
			describe how	many stretchy			carries oxygen,		Describe the	Structure and	photosynthesis	
			different habitats	fibres.			other nutrients and		structure of protoctists	function of the eye	equation	
			provide for the	Muscles allow			hormones around		•Understand how	, , , , , , , , , , , , , , , , , , , ,	• Factors affecting	
			basic needs of	us to move,			the body. It also		unicellular organisms		photosynthesis	
			different kinds of	breathe and			carries carbon		can be helpful and		•Understand how	
			animals and	digest food.			dioxide and other		harmful		plants absorb	
			plants, and how	●The three main			waste products so		•The carbon cycle		water and	
			they depend on	types of muscle in			they can be				mineral ions	
			each other	the human body			excreted.					

	●Identify and	are skeletal,		●Blood is made up		● Transpiration	
	name a variety of	cardiac and		of plasma,		and translocation	
	plants and	smooth.		platelets, red blood		●Plant	
	animals in their	•A joint is where		cells and white		adaptations	
	habitats,	two or more		blood cells.		●Plant hormones	
	including	bones meet and		●Plasma is a		• Traine mormones	
	microhabitats	connect.		yellowish liquid,		<u>Animal</u>	
	•Describe how	Parts of the		mainly water. It		coordination and	
	animals obtain	human body can		carries red blood		control	
	their food from	bend easily		cells, white blood		•What hormones	
	plants and other	because the		cells and platelets		are and examples	
	animals, using the	skeleton has lots		around the body.		of human	
	idea of a simple	of small bones		Red blood cells		hormones	
	food chain, and	and joints.		carry oxygen and		<ul> <li>Metabolic rate</li> </ul>	
	identify and name			carbon dioxide		<ul><li>Hormones and</li></ul>	
	different sources			around the body.		the menstrual	
	of food.			White blood cells		cycle	
				fight infection and		<ul><li>Control of blood</li></ul>	
				other diseases.		glucose and	
				<ul> <li>◆Platelets are small</li> </ul>		diabetes (types 1	
				cell fragments that		and 2)	
				clump together to		<ul> <li>Thermoregulati</li> </ul>	
				stop bleeding from		on	
				a cut in a blood		<ul> <li>Osmoregulation</li> </ul>	
				vessel.		and structure and	
						function of the	
						kidneys	
						,.	
				Living Things and			
				their Habitat			
				Describe how			
				living things are			
				classified into			
				broad groups			
				according to			
				common observable			
				characteristics and			
				based on			
				similarities and			
				differences,			
				including			
				microorganisms,			
				plants and animals			
				<ul><li>Give reasons for</li></ul>			
				classifying plants			
				and animals based			
				on specific			
				characteristics.			
				Evolution and			
				Inheritance:			
				<ul> <li>Recognise that</li> </ul>			
				living things have			
				changed over time			
•	•	•	•	•	•		

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							and that fossils					
							provide					
							information about					
							living things that					
							inhabited the Earth					
							millions of years					
							ago					
							<ul> <li>Recognise that</li> </ul>					
							living things					
							produce offspring					
							of the same kind,					
							but normally					
							offspring vary and					
							are not identical to					
							their parents					
							<ul><li>Identify how</li></ul>					
							animals and plants					
							are adapted to suit					
							their environment					
							in different ways					
							and that adaptation					
							may lead to					
							evolution.					
Chemistry	To be able to	Everyday	<u>Everyday</u>	Rocks:	States of Matter:	Properties and		Mixtures and	Combustion	Making Materials	Acids and alkalis	Groups in the Periodic table, rates o
	comment on the	Materials:	Materials:	Compare and	Compare and	changes of		separation	Describe what	•properties of	• Definitions of	•Trends in groups 1,7 and 0
	changes of the	<ul> <li>Distinguish</li> </ul>	■Identify and	group together	group materials	Materials:		Define mixtures	happens when fuels	ceramics	acids, alkalis and	• Rates of reaction
	properties of	between an object	compare the	different kinds of	together,	•Compare and		<ul> <li>Describe solutions,</li> </ul>	are burned	•properties of	indicators	•Factors affecting rates of reaction
	objects e.g	and the material	suitability of a	rocks on the basis	according to	group together		solutes and solvents	Write word equations	polymers	●The pH scale	<ul> <li>Catalysts and activation energy</li> </ul>
	paint, ice and	from which it is	variety of	of their	whether they are	everyday		•Use evaporation to	for oxidation	•properties of	<ul> <li>Neutralisation</li> </ul>	Exothermic and endothermic react
	food	made	everyday	appearance and	solids, liquids or	materials on the		separate solutions	<ul> <li>Understand how</li> </ul>	composites	(with bases,	
	●Talk about	●Identify and name	materials,	simple physical	gases	basis of their		●Use	combustion can lead to	•Earth as a source of	carbonates and	Fuels, earth and atmosphere
	some properties of materials e.g.	a variety of	including wood,	properties	<ul><li>Observe that</li></ul>	properties,		chromatography to	air pollution and global	limited resources	metals)	Hydrocarbons in crude oil and natu
	reflective, soft,	everyday materials,	metal, plastic,	<ul> <li>Describe in</li> </ul>	some materials	including their		separate colours	warming		<ul><li>Solubility</li></ul>	Fractional distillation of crude oil
	hard.	including wood,	glass, brick, rock,	simple terms how	change state	hardness,		<ul> <li>Use distillation to</li> </ul>		Reactivity		<ul><li>Breaking down hydrocarbons</li><li>Complete and incomplete combust</li></ul>
	nara.	plastic, glass, metal,	paper and	fossils are formed	when they are	solubility,		produce pure water	The Periodic table	<ul> <li>Reactivity series</li> </ul>	Calculations	The early and modern atmosphere
		water, and rock	cardboard for	when things that	heated or cooled,	transparency,			<ul><li>Describe Dalton's</li></ul>	<ul> <li>Displacement</li> </ul>	involving masses	The early and modern atmosphere
		<ul><li>Describe the</li></ul>	particular uses	have lived are	and measure or	conductivity		Acids and alkalis	atomic model	reactions	<ul> <li>◆Calculating</li> </ul>	Hydrocarbons, alcohols, carboxylic o
		simple physical	●Find out how	trapped within	research the	(electrical and		<ul> <li>Know what some</li> </ul>	Describe the	<ul><li>Extracting metals</li></ul>	empirical	• Structure and reactions of alkanes
		properties of a	the shapes of	rock	temperature at	thermal), and		hazards are and how	differences between	●Endothermic and	formulae	●Ethanol production
			solid objects	<ul> <li>Recognise that</li> </ul>	which this	response to		to stay safe	chemical properties	Exothermic reactions	●Law of	● Alcohols
		materials	made from some	soils are made	happens in	magnets		<ul><li>Understand what</li></ul>	and physical trends		conservation of	● Carboxylic acids
		<ul><li>Compare and</li></ul>	materials can be	from rocks and	degrees Celsius	<ul><li>Know that</li></ul>		indicators do	Describe chemical	States of matter;	mass	<ul> <li>Polymerisation (addition and conde</li> </ul>
		group together a	changed by	organic matter.	(°C)	some materials		Use the pH scale to	trends	separating mixtures	•Concentration	● Polymer problems
			squashing,		•Identify the part	will dissolve in		measure acidity and		•States of matter	calculations	Qualitative superiories at the state of the
		materials on the	bending, twisting		played by	liquid to form a		alkalinity	Metals and their uses	•Mixtures	●Moles	Qualitative analysis and materials
		basis of their	and stretching.		evaporation and	solution, and		Carry out	Describe the	•Separating mixtures		<ul><li>Flame tests and photometry</li><li>Tests for positive ions</li></ul>
		simple physical			condensation in	describe how to		neutralisation	properties of metals	(chromatography,	Electrolysis and	Tests for negative ions
		properties.			the water cycle	recover a			Describe the	filtration, distillation,	<u>metals</u>	Choosing materials
					and associate the	substance from		The particle model	reactions of metals	crystallisation)	•Principles of	Composite materials
					rate of	a solution		•Draw solids, liquids	with water and acids	Making drinking	electrolysis	Nanoparticles
					evaporation with	•Use		and gases using the	Describe the  differences between	water	Products from	, , , , ,
					temperature.	knowledge of		particle model	differences between	Atomio atmostra	electrolysis	
						solids, liquids		•Understand the	alloys and pure metals	Atomic structure	•The reactivity	
						and gases to		properties of solids,	Books	•Structure of the	series	
						decide how mixtures might		liquids and gases	Rocks	atom	<ul><li>Extracting metals from ores</li></ul>	
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					be separated,		Describe Brownian	Uses of rocks e.g. in	Using the periodic	Oxidation and	
					including		motion and the	building	table to see atomic	reduction	
					through		evidence for this	<ul><li>◆How igneous,</li></ul>	number and mass	<ul><li>Life cycle</li></ul>	
					filtering, sieving		Describe diffusion	metamorphic and	●Isotopes	assessment and	
					and evaporating		in fluids	sedimentary rocks are		recycling	
					<ul><li>Give reasons,</li></ul>		<ul> <li>Understand how air</li> </ul>	formed	The Periodic table	<ul><li>Dynamic</li></ul>	
					based on		pressure is caused.	◆The fossil record	<ul> <li>How elements are</li> </ul>	equilibrium	
					evidence from			<ul> <li>Getting materials</li> </ul>	arranged in groups	<ul><li>◆Transition</li></ul>	
					comparative		Atoms, elements	from the Earth	and periods	metals	
					and fair tests,		and molecules		•Atomic number and	● Corrosion	
					for the		●What air is made of		the Periodic table	<ul> <li>Electroplating</li> </ul>	
					particular uses		Where elements		•Electron	•The process of	
					of everyday		come from		configuration	alloying	
					materials,		Metals and non-		Comigaration	•Uses of metals	
					including		metals			and their alloys	
										una their alloys	
					metals, wood		What compounds				
					and plastic		are			<u>Quantitative</u>	
					Demonstrate		What happens in			analysis,	
					that dissolving,		chemical reactions			<u>equilibria,</u>	
					mixing and					chemical and fuel	
					changes of state					<u>cells</u>	
					are reversible					<ul><li>Yields</li></ul>	
					changes					<ul> <li>Atom economy</li> </ul>	
					<ul><li>Explain that</li></ul>					<ul><li>Concentrations</li></ul>	
					some changes					●Titration	
					result in the					calculations	
					formation of					<ul> <li>Molar volumes</li> </ul>	
					new materials,					of gases	
					and that this					<ul><li>Fertilisers and</li></ul>	
					kind of change					the Haber process	
					is not usually					• Factors affecting	
					reversible,					equilibrium	
					including					Chemical cells	
					changes					and fuel cells	
					associated with					una juer cens	
					burning and the						
					action of acid						
					on bicarbonate						
					of soda.						
Dhysics	To be able to	Saconal Character	Lights	Cound:	Forces	Light	Enorma	Eluido	Force Fields	Mayes	Electricity and Circuits
Physics	name the four	Seasonal Changes:	Light:	Sound:	Forces:	Light:	Energy	Fluids	Force Fields	Waves	Electricity and Circuits
	seasons and the	Observe changes     cores the four	Recognise that	•Identify how	•Explain that	• Recognise that	•Know that food	Using the particle	Static Electricity	Describing	Electric circuits     Current and natantial different
	connected	across the four	they need light in	sounds are made,	unsupported	light appears to	contains energy and	model	•Electric Fields	waves	Current and potential difference
	weather	seasons	order to see	associating some	objects fall	travel in straight	how this can be	Describe changes of	•Resistance of	Wave speed	Current charge and energy
	To observe     ■	Observe and	things and that	of them with	towards the	lines	measured	state	components	•Refraction	•Resistance
	seasonal	describe weather	dark is the	something	Earth because	Use the idea that	•Understand energy	Describe how	Electrical Current	Waves crossing	More about resistance
	changes and	associated with the	absence of light	vibrating	of the force of	light travels in	transfers and stores	pressure in fluids is	• Electromagnets	boundaries	Transferring energy
	discuss these.	seasons and how	<ul> <li>Notice that light</li> </ul>	<ul> <li>Recognise that</li> </ul>	gravity acting	straight lines to	<ul> <li>Describe what fuels</li> </ul>	created	<ul> <li>Magnetic fields</li> </ul>	●Ears and hearing	●Power
	●To categories	day length varies.	is reflected from	vibrations from	between the	explain that objects	are	<ul> <li>Describe forces in</li> </ul>		<ul><li>Ultrasound</li></ul>	Transferring energy by electric
	objects into		surfaces	sounds travel	Earth and the	are seen because	<ul><li>Understand sources</li></ul>	floating and sinking	Forces and Motion	<ul><li>Infrasound</li></ul>	Electrical safety
	some		<ul> <li>Recognise that</li> </ul>	through a	falling object	they give out or	of renewable energy	<ul> <li>◆Drag as a type of</li> </ul>	<ul> <li>Speed equation</li> </ul>		
	characteristics		light from the sun	medium to the	<ul> <li>Identify the</li> </ul>	reflect light into the		friction	<ul> <li>Forces and</li> </ul>	Light and the	Magnetism and the Motor Effect
	e.g. sinking and		can be dangerous	ear	effects of air	eye	Current electricity		Movement	Electromagnetic	Magnets and magnetic fields
	floating		and that there are	<ul><li>Find patterns</li></ul>	resistance,	•Explain that we	●Understand how to	<u>Light</u>	•change depending	Spectrum	• Electromagnetism
			ways to protect	between the	water resistance	see things because	make a series and	Describe luminous	on direction of force	•Ray diagrams	Magnetic forces
			their eyes	pitch of a sound	and friction,	light travels from	parallel circuit	and non-luminous	and its size.	•Colour	
				and features of	that act	light sources to our	,	objects		•Lenses	Electromagnetic Induction
<u> </u>				and reacutes of	ac acc	I "Bill Jources to our	l .	00,000	I .	- 2011303	

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		<ul><li>Recognise that</li></ul>	the object that	between	eyes or from light	●How to use	•Describe how we see	Conservation of	●EM waves	●Electromagnetic induction
		shadows are	produced it	moving surfaces	sources to objects	switches in circuits	things	<u>Energy</u>	●EM spectrum	•The national grid
	ı	formed when the	<ul><li>Find patterns</li></ul>	<ul> <li>Recognise that</li> </ul>	and then to our	Describe some	<ul> <li>●Understand</li> </ul>	<ul><li>Energy Stores and</li></ul>	<ul><li>Using long</li></ul>	●Transformers and energy
		light from a light	between the	some	eyes	models for circuits	reflection, refraction	Transfers	waves	
		source is blocked	volume of a	mechanisms,	•Use the idea that	and their limitations	and dispersion	<ul><li>●Energy Efficiency</li></ul>	●Radiation and	Particle Model
		by an opaque	sound and the	including levers,	light travels in	Measure current	•Understand how we	Keeping Warm	temperature	Particles and density
		object	strength of the	pulleys and	straight lines to	and voltage with	see colour	Stored Energies	<ul><li>Using short</li></ul>	•Energy and changes of state
		•Find patterns in	vibrations that	gears, allow a	explain why	ammeters and		Non-renewable	waves	•Energy calculations
		the way that the	•produced it	smaller force to	shadows have the	voltmeters	Energy transfers	resources	●EM dangers	•Gas temperature and pressure
		size of shadows	• Recognise that	have a greater	same shape as the	Describe dangers of	•Understand how to	•Renewable	Do di o o otivitu.	●Gas pressure and volume
		change.	sounds get fainter as the distance	effect.	objects that cast them.	electricity and ways	measure temperature changes	resources	•Atomic models	Forces and Matter
		Forces and	from the sound	Earth and	tileili.	to stay safe	Describe conduction,	Motion	•Inside atoms	Bending and stretching
	ı	Forces and Magnets:	source increases.	Space:	Electricity:	<u>Forces</u>	convection and	Vectors and Scalars	•Electrons and	Extension and energy transfers
		Compare how	source increases.	•Describe the	•Associate the	•Give examples of	radiation	Distance time	orbits	• Pressure in fluids
		things move on	Electricity:	movement of	brightness of a	forces	Describe insulation	graphs	Background	Pressure and upthrust
		different surfaces	•Identify	the Earth, and	lamp or the volume	•Use a newtonmeter	Understand how to	Acceleration	radiation	or ressure and aptimuse
		Notice that	common	other planets,	of a buzzer with the		calculate efficiency and	Velocity time	●Types of	
		some forces need	appliances that	relative to the	number and	Understand what	how payments for	graphs	radiation	
	ı	contact between	run on electricity	Sun in the solar	voltage of cells	friction does	energy are calculated		Radioactive	
	ı	two objects, but	●Construct a	system	used in the circuit	•Understand how			decay	
		magnetic forces	simple series	Describe the	●Compare and give	pressure is made and	Earth and space		●Half life	
		can act at a	electrical circuit,	movement of	reasons for	the equation for	●Evidence for the		●Using	
		distance	identifying and	the Moon	variations in how	pressure	heliocentric model of		radioactivity	
		<ul><li>Observe how</li></ul>	naming its basic	relative to the	components	<ul> <li>●Understand</li> </ul>	the solar system		<ul><li>Dangers of</li></ul>	
		magnets attract	parts, including	Earth	function, including	balanced and	Describe how		radioactivity	
	ı	or repel each	cells, wires, bulbs,	<ul><li>Describe the</li></ul>	the brightness of	unbalanced forces	seasons happen		<ul> <li>■Radioactivity in</li> </ul>	
		other and attract	switches and	Sun, Earth and	bulbs, the loudness		How the Earth has a		medicine	
		some materials	buzzers	Moon as	of buzzers and the	Sound	magnetic field		Nuclear energy	
		and not others	•Identify whether	approximately	on/off position of	•Understand how	How gravity varies		Nuclear fission	
	ı	Compare and	or not a lamp will	spherical bodies	switches	sounds are made	Beyond the solar		<ul><li>Nuclear fusion</li></ul>	
		group together a	light in a simple	•Use the idea	Use recognised	Describe how	system		A - 4	
		variety of	series circuit,	of the Earth's	symbols when	soundwaves can be			Astronomy	
		everyday materials on the	based on whether or not the lamp is	rotation to explain day and	representing a simple circuit in a	seen •Identify the			<ul><li>The solar system</li><li>Gravity and</li></ul>	
		basis of whether	part of a		diagram.	structure of the ear			orbits	
		they are attracted	complete loop	night and the apparent	ulagraili.	Describe how			•Lifecycle of stars	
		to a magnet, and	with a battery	movement of		sound can be used by			• Red shift	
		identify some	Recognise that a	the sun across		animals and humans			•Origins of the	
	ı	magnetic	switch opens and	the sky.					universe	
		materials	closes a circuit	and sky.						
		Describe	and associate this						Energy - Forces	
		magnets as	with whether or						Doing Work	
		having two poles	not a lamp lights						●Work and power	
		<ul><li>Predict whether</li></ul>	in a simple series						•Forces and their	
		two magnets will	circuit						Effects	
		attract or repel	<ul> <li>Recognise some</li> </ul>						<ul><li>Objects</li></ul>	
		each other,	common						affecting each	
		depending on	conductors and						other	
		which poles are	insulators, and						<ul> <li>Vector diagrams</li> </ul>	
		facing.	associate metals						<ul><li>Rotational</li></ul>	
			with being good						forces	
			conductors.							
									Static Electricity	
									•Charges and	
									static electricity	
				<u> </u>						