

Year	Plants	Living things and their habitats	Animals including humans	Seasonal Changes	Materials	Forces	Light
Birth to 3		- Explore and respond to different natural			- Explore materials with different		
10 3		phenomena in their			properties		
		setting and on trips			- Explore natural		
					materials, indoors		
					and outside		
					- Explore different		
					materials, using all		
					their senses to		
					investigate them. Manipulate and play		
					with different		
					materials		
3 & 4	- Plant seeds and	- Begin to understand	- Understand the key		- Use all their senses	- Explore and talk	
Year	care for growing	the need to respect	features of the life		in hands-on	about different	
olds	plants	and care for the	cycle of a plant and		exploration of	forces they can	
	- Understand the	natural environment and all living things	an animal		natural materials	feel	
	key features of the	and an army			- Explore collections		
	life cycle of a plant				of materials with		
	and an animal				similar and/or		
					different properties		
					- Talk about the		
					differences between		
					materials and		
	.	IV.	F 1 11	W	changes they notice		
Rec	- Explore the	- Know some similarities and	- Explore the natural world	- Know some similarities and			
	around them,	differences between	around them,	differences between			
	making observations	the natural world	making observations	the natural world			
	and drawing	around them and	and drawing	around them and			



	T					
	pictures of animals	contrasting	pictures of animals	contrasting		
	and plants	environments, drawing	and plants	environments, drawing		
		on their experiences		on their experiences		
		and what has been		and what has been		
		read in class		read in class		
				- Understand some		
				important processes		
				and changes in the		
				natural world		
				around them,		
				including the seasons		
				and changing states		
				of matter		
K51	- Identify and name	- Explore and compare	- Identify and name	- Observe changes	- Distinguish	
1&2	a variety of common	the differences	a variety of common	across the four	between an object	
3 4.2	wild and garden	between things that	animals including	seasons	and the material	
	plants, including	are living, dead, and	fish, amphibians,		from which it is	
	deciduous and	things that have never	reptiles, birds and	- Observe and	made	
	evergreen trees	been alive	mammals	describe weather		
	J			associated with the	- Identify and name	
	- Identify and	- Identify that most	- Identify and name	seasons and how day	a variety of everyday	
	describe the basic	living things live in	a variety of common	length varies	materials, including	
	structure of a	habitats to which they	animals that are		wood, plastic, glass,	
	variety of common	are suited and	carnivores,		metal, water, and	
	flowering plants,	describe how	herbivores and		rock	
	including trees	different habitats	omnivores			
		provide for the basic			- Describe the simple	
	- Observe and	needs of different	- Describe and		physical properties	
	describe how seeds	kinds of animals and	compare the		of a variety of	
	and bulbs grow into	plants, and how they	structure of a		everyday materials	
	mature plants	depend on each other	variety of common		,	
			animals (fish,		- Compare and group	
	- Find out and	- Identify and name a	amphibians, reptiles,		together a variety of	
	describe how plants	variety of plants and	birds and mammals,		everyday materials	
	need water, light and	animals in their	including pets)		on the basis of their	
	a suitable	habitats, including			simple physical	



	temperature to grow	microhabitats	- Identify, name,	properties		
	and stay healthy		draw and label the			
		- Describe how animals	basic parts of the	- Identify and		
		obtain their food from	human body and say	compare the		
		plants and other	which part of the	suitability of a		
		animals, using the idea	body is associated	variety of everyday		
		of a simple food chain,	with each sense	materials, including		
		and identify and name		wood, metal, plastic,		
		different sources of	- Notice that	glass, brick, rock,		
		food	animals, including	paper and cardboard		
			humans, have	for particular uses		
			offspring which grow			
			into adults	- Find out how the		
				shapes of solid		
			- Find out about and	objects made from		
			describe the basic	some materials can		
			needs of animals,	be changed by		
			including humans, for	squashing, bending,		
			survival (water, food	twisting and		
			and air)	stretching		
			- Describe the			
			importance for			
			humans of exercise,			
			eating the right			
			amounts of different			
			types of food, and			
			hygiene			
LKS2	- Identify and	- Recognise that living	- Identify that		- Compare how	- Recognise that they
3&4	describe the	things can be grouped	animals, including		things move on	need light in order to
	functions of	in a variety of ways	humans, need the		different surfaces	see things and that
	different parts of		right types and			dark is the absence
	flowering plants:	- Explore and use	amount of nutrition,		- Notice that some	of light
	roots, stem/trunk,	classification keys to	and that they cannot		forces need	
	leaves and flowers	help group, identify	make their own food;		contact between	- Notice that light is
		and name a variety of	they get nutrition		two objects, but	reflected from
	- Explore the	living things in their	from what they eat		magnetic forces	surfaces



	requirements of plants for life and	local and wider	- Identify that		can act at a distance	- Recognise that
	growth (air, light,	On the original transfer of the original transfer or the original trans	humans and some		distance	light from the sun
	water, nutrients	- Recognise that	other animals have		- Observe how	can be dangerous and
	from soil, and room	environments can	skeletons and		magnets attract or	that there are ways
	to grow) and how	change and that this	muscles for		repel each other	to protect
	they vary from plant	can sometimes pose	support, protection		and attract some	their eyes
	to plant	dangers to living	and movement		materials and not	,
		things			others	- Recognise that
	- Investigate the		- Describe the simple			shadows are formed
	way in which water is		functions of the		- Compare and	when the light from
	transported within		basic parts of the		group together a	a light source is
	plants		digestive system in		variety of everyday	blocked by an opaque
			humans		materials on the	object
	- Explore the part				basis of whether	
	that flowers play in		- Identify the		they are attracted	- Find patterns in the
	the life cycle of		different types of		to a magnet, and	way that the size of
	flowering plants,		teeth in humans and		identify some	shadows change
	including		their simple		magnetic materials	
	pollination, seed		functions			
	formation and seed				- Describe magnets	
	dispersal		- Construct and		as having two poles	
			interpret a variety			
			of food chains,		- Predict whether	
			identifying		two magnets will	
			producers, predators		attract or repel	
			and prey		each other,	
					depending on which	
LIKCO		- Describe the	- Describe the	C	poles are facing	D
UKS2				- Compare and group	- Explain that	- Recognise that
5&6		differences in the life cycles of a mammal, an	changes as humans develop to old age	together everyday materials on the	unsupported objects fall	light appears to travel in straight
		amphibian, an insect	develop to old age	basis of their	towards the Earth	lines
		and a bird	- Identify and name	properties,	because of the	imes
		und a bii a	the main parts of the	including their	force of gravity	- Use the idea that
		- Describe the life	human circulatory	hardness, solubility,	acting between the	light travels in
		process of	system, and describe	transparency,	Earth and the	straight lines to
		process of	system, and describe	it unsput ency,	Lui III una IIIe	straight lines to



reproduction in some	the functions of the	conductivity	falling object	explain that objects
plants and animals	heart, blood vessels	(electrical and		are seen because
	and blood	thermal), and	- Identify the	they give out or
- Describe how living		response to magnets	effects of air	reflect light into the
things are classified	- Recognise the		resistance, water	eye
into broad groups	impact of diet,	- Know that some	resistance and	- Explain that we see
according to common	exercise, drugs and	materials will	friction, that act	things because light
observable	lifestyle on the way	dissolve in liquid to	between moving	travels from light
characteristics and	their bodies	form a solution, and	surfaces	sources to our eyes
based on similarities	function	describe how to		or from light sources
and differences,		recover a substance	- Recognise that	to objects and then
including	- Describe the ways	from a solution	some mechanisms,	to our eyes
microorganisms, plants	in which nutrients		including levers,	
and animals	and water are	- Use knowledge of	pulleys and gears,	- Use the idea that
	transported within	solids, liquids and	allow a smaller	light travels in
- Give reasons for	animals,	gases to decide how	force to have a	straight lines to
classifying plants and	including humans	mixtures might be	greater effect	explain why shadows
animals based on		separated, including		have the same
specific		through filtering,		shape as the objects
characteristics		sieving and		that cast them
		evaporating		
		,		
		- Give reasons, based		
		on evidence from		
		comparative and fair		
		tests, for the		
		particular uses of		
		everyday materials,		
		including metals,		
		wood and plastic		
		- Demonstrate that		
		dissolving, mixing and		
		changes of state are		
		reversible changes		
		,		
		- Explain that some		



		changes result in the formation of new	
		materials, and that	
		this kind of change is	
		not usually	
		reversible, including	
		changes associated	
		with burning and	
		the action of acid on	
		bicarbonate of soda	



Year	Electricity	Sound	Earth and Space	Rocks	States of Matter	Evolution and Inheritance
Birth to 3						
3 & 4 Year olds						
Rec					- Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter	
KS1						
1&2						
LKS2	- Identify common	- Identify how		- Compare and group	- Compare and group	
3&4	appliances that run on electricity	sounds are made, associating some of them with something		together different kinds of rocks on the basis of their	materials together, according to whether they are solids, liquids	
	- Construct a simple series	vibrating		appearance and simple physical	or gases	
	electrical circuit, identifying and	- Recognise that vibrations from		properties	- Observe that some materials change state	
	naming its basic	sounds travel		- Describe in simple	when they are heated or	
	parts, including	through a medium to		terms how fossils are	cooled, and measure or	
	cells, wires, bulbs,	the ear		formed when things	research the	
	switches and buzzers	Find nottonno		that have lived are	temperature at which	
	Duzzers	- Find patterns between the pitch of		trapped within rock	this happens in degrees Celsius (°C)	
	- Identify whether	a sound and features		- Recognise that soils	Celsius (C)	
	or not a lamp will	of the object that		are made from rocks	- Identify the part	
	light in a simple	produced it		and organic matter	played by evaporation	
	series circuit,				and condensation in the	



	based on whether	- Find patterns		water cycle and	
	or not the lamp is	between the volume		associate the rate of	
	part of a complete	of a sound and the		evaporation with	
	loop with a battery	strength of the		temperature	
		vibrations that			
	- Recognise that a	produced it			
	switch opens and				
	closes a circuit and	- Recognise that			
	associate this with	sounds get fainter as			
	whether or not a	the distance from			
	lamp lights in a	the sound source			
	simple series	increases			
	circuit				
	- Recognise some				
	common conductors				
	and insulators, and				
UKS2	+ -		- Describe the		- Recognise that living
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			<i>- - - - - - - - - -</i>		•
			- Describe the		-9-
	- Compare and give				- Recognise that living
	•				
	•				
			- Describe the Sun		· · · · · · · · · · · · · · · · · · ·
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					, , , , , , , , , , , , , , , , , , ,
			• •		- Identify how animals and
			- - - - - - - - - -		· · · · · · · · · · · · · · · · · · ·
			- Use the idea of the		
UKS2 5&6	and insulators, and associate metals with being good conductors - Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit - Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of		- Describe the movement of the Earth, and other planets, relative to the Sun in the solar system - Describe the movement of the Moon relative to the Earth - Describe the Sun, Earth and Moon as approximately spherical bodies - Use the idea of the		- Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago - Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents - Identify how animals and plants are adapted to suit their environment in



switches - Use recognised symbols when representing a	Earth's rotation to explain day and night and the apparent movement of the sun across the sky	different ways and that adaptation may lead to evolution
simple circuit in a diagram		