



Subject: Science (Topics) Years: 1-6 YEAR GROUP EYFS YEAR 1 YEAR 2 YEAR 3 YEAR 4 YEAR 5 YEAR 6 identify and identify and observe and Plants ٠ ٠ ٠ name a describe how describe the seeds and functions of variety of bulbs grow different parts common into mature of flowering wild and garden plants. plants: roots, plants, find out and stem/trunk, • including describe how leaves and deciduous flowers. plants need and explore the water, light . evergreen and a suitable requirements of trees. temperature plants for life identify and to grow and and growth (air, describe light, water, stay healthy. the basic nutrients from structure of soil, and room a variety of to grow) and common how they vary flowering from plant to plants, plant. including investigate the ٠ trees. way in which water is transported within plants. explore the part . that flowers





Animals Including Humans	 Know and talk about the different factors that support their overall health and wellbeing: regular physical activity healthy eating toothbrushing sensible amounts of 'screen time' having a good sleep routine being a safe pedestrian Talk about the different factors that support their overall health and wellbeing: regular physical activity healthy eating 	 identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. identify and name a variety of common animals that are carnivores, herbivores and omnivores. 	 notice that animals, including humans, have offspring which grow into adults find out about. describe the basic needs of animals, including humans, for survival (water, food and air). describe the importance for humans of exercise, eating the right amounts 	 play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. identify that humans and some other animals have skeletons and muscles for support, protection and movement. 	 describe the simple functions of the basic parts of the digestive system in humans. identify the different types of teeth in humans and their simple functions. construct and interpret a variety of food chains, identifying producers, predators and prey. 	describe the changes as humans develop to old age.	 identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. describe the ways in which nutrients and water are transported within animals,
			5	movement.			•





	- having a good	a variety of				
	sleep routine					
	- being a safe	common				
	pedestrian	animals				
	Manage their own	(fish,				
	basic hygiene	amphibians,				
	and personal	reptiles,				
	needs,	birds and				
	including	mammals,				
	dressing, going	including				
	to the toilet	pets).				
	and	identify,				
	understanding	name, draw				
	the	and label				
	importance of	the basic				
	healthy food choices.					
	choices.	parts of the				
		human				
		body and				
		say which				
		part of the				
		body is				
		associated				
		with each				
		sense.				
Living Things	Know some		explore and	 recognise that 	describe the	describe how
	similarities and		compare the	living things can	differences in	living things are
and their	differences		differences	be grouped in a	the life cycles	classified into
Habitats	between the		between	variety of ways	of a mammal,	broad groups
	natural world around them		things that	explore and use	an amphibian,	according to
	and contrasting		are living,	classification	an insect and	common
	environments,		dead, and	keys to help	a bird.	observable
	drawing on		things that	group, identify	describe the	characteristics
	their		have never	and name a	life process of	and based on
	experiences		been alive.	variety of living		similarities and
	and what has		שככוו מוועפ.		reproduction	differences,
				things in their	in some	unterences,





been read in	identify that	local and wider	plants and	including
class.	most living	environment.	animals	microorganisms,
Explore the	things live in	recognise that	diminuts	plants and
natural world	habitats to	environments		animals.
around them.	which they	can change and		 give reasons for
Describe what	are suited and	that this can		classifying plants
they see, hear	describe how	sometimes pose		and animals
and feel while they are	different	dangers to living		based on specific
outside.	habitats			characteristics.
Recognise some		things.		characteristics.
environments	provide for			
that are	the basic			
different to the	needs of			
one in which	different			
they live.	kinds of			
 Explore the natural world 	animals and			
around them,	plants, and			
making	how they			
observations	depend on			
and drawing	each other.			
pictures of	identify and			
animals and	name a			
plants.	variety of			
	plants and			
	animals in			
	their habitats,			
	including			
	microhabitats.			
	describe how			
	animals			
	obtain their			
	food from			
	plants and			
	other animals,			
	using the idea			





		of a simple				
		food chain,				
		and identify				
		and name				
		different				
		sources of				
		food.				
Materials	Everyday Materials)	(Uses of Everyday	(Magnets)	(States of Matter)	(Properties and Changes	
waterials		Materials)	(magneto)	(otates of matter)	of Materials)	
	 distinguish 	Wateriaisy	compare how	 compare and 	on materialsy	
	between an	 identify and 	things move on	group materials	 compare and 	
	object and	compare the	different	together,	group	
	the	suitability of a	surfaces notice	according to	together	
	material	variety of	that some	whether they are	everyday	
	from which	everyday	forces need	solids, liquids or	materials on	
	it is made.	materials,	contact	gases	the basis of	
	 identify and 	including wood,	between two	 observe that 	their	
	name a	metal, plastic,	objects, but	some materials	properties,	
	variety of	glass, brick, rock,	magnetic forces	change state	including their	
	everyday	paper and	can act at a	when they are	hardness,	
	materials,	cardboard for	distance	heated or cooled,	solubility,	
	including	particular uses.	observe how	and measure or	transparency,	
	wood,	 find out how the 	magnets attract	research the	conductivity	
	plastic,	shapes of solid	or repel each	temperature at	(electrical and	
	glass,	objects made	other and	which this	thermal), and	
	metal,	from some	attract some	happens in	response to	
	,	materials can be	materials and	degrees Celsius	magnets	
	water, and rock.			e e	-	
		changed by	not others	(°C)		
	describe	squashing,	compare and	 identify the part 	some materials will	
	the simple	bending, twisting	group together	played by		
	physical	and stretching.	a variety of	evaporation and	dissolve in	
	properties		everyday	condensation in	liquid to form	
	of a variety		materials on the	the water cycle	a solution,	
			basis of	and associate the	and describe	





of everyday		whether they	rate of	how to	
materials		are attracted to	evaporation with	recover a	
compare		a magnet, and	temperature.	substance	
and group		identify some		from a	
together a		magnetic		solution	
variety of		materials		• use	
everyday	•	describe		knowledge of	
materials		magnets as		solids, liquids	
on the basis		having two		and gases to	
of their		poles predict		decide how	
simple		whether two		mixtures	
physical		magnets will		might be	
properties.		attract or repel		separated,	
		each other,		including	
		depending on		through	
		which poles are		filtering,	
		facing.		sieving and	
				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.		
Light		•	Recognise that		•	Recognise that
			they need light			light appears to
			in order to see			travel in straight
			things and that			lines
			dark is the		•	Use the idea that
			absence of light			light travels in
		•	Notice that light			straight lines to
			is reflected from			explain that
			surfaces			objects are seen
		•	Recognise that			because they
			light from the			give out or
						0.00000



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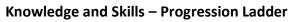
		sun can be dangerous and that there are ways to protect their eyes Recognise that shadows are formed when		•	reflect light into the eye Explain that we see things because light travels from light sources to our eyes or from light
		 the light from a light source is blocked by a solid object. Find patterns in the way that the size of shadows change. 		•	sources to objects and then to our eyes Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
Electricity			 Identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. Identify whether or not a lamp will 	•	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,





			light in a simple		including the
			series circuit,		brightness of
			based on		bulbs, the
			whether or not		loudness of
			the lamp is part		buzzers and the
			of a complete		on/off position of
			loop with a		switches.
			battery.		Use recognised
			Recognise that a		symbols when
			switch opens and		representing a
			closes a circuit		simple circuit in a
			and associate		diagram.
			this with whether		-
			or not a lamp		
			lights in a simple		
			series circuit.		
			Recognise some		
			common		
			conductors and		
			insulators, and		
			associate metals		
			with being good		
			conductors.		
Forces		Compare how		Explain that	
		things move on		unsupported	
		different		objects fall	
		surfaces.		towards the	
		Notice that		Earth because	
		some forces		of the force of	
		need contact		gravity acting	
		between 2		between the	
		objects, but		Earth and the	
		magnetic forces		falling object.	







		can act at a	•	Identify the	
		distance.		effects of air	
	•	Observe how		resistance,	
		magnets attract		water	
		or repel each		resistance	
		other and		and friction,	
		attract some		that act	
		materials and		between	
		not others.		moving	
	•	Compare and		surfaces.	
		group together	•	Recognise	
		a variety of		that some	
		everyday		mechanisms	
		materials on the		including	
		basis of		levers, pulleys	
		whether they		and gears	
		are attracted to		allow a	
		a magnet, and		smaller force	
		identify some		to have a	
		magnetic		greater effect.	
		materials.			
	•	Describe			
		magnets as			
		having two			
		poles.			
	•	Predict whether			
		two magnets			
		will attract or			
		repel each			
		other,			
		depending on			
		which poles are			
		facing.			





Rocks	Compare and		
NOCKS	group together		
	different kinds		
	of rocks on the		
	basis of their		
	appearance and		
	simple physical		
	properties.		
	Describe in		
	simple terms		
	how fossils are		
	formed when		
	things that have		
	lived are		
	trapped within		
	rock.		
	 Recognise that 		
	soils are made		
	from rocks and		
	organic matter.		
Sound		 Identify how 	
		sounds are	
		made,	
		associating some	
		of them with	
		something	
		vibrating.	
		 Recognise that 	
		vibrations from	
		sounds travel	
		through a	
		medium to the	
		ear.	





		 Find patterns between the pitch of a sound and features of the object that produced it. Find patterns between the volume of a sound and the strength of the vibrations that produced it. Recognise that sounds get fainter as the distance from the sound source 		
Earth and Space		increases.	 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 Earth's	
			rotation to	
			explain day	
			and night, and	
			the apparent	
			movement of	
			the sun across	
			the sky.	
Free last and a set			the sky.	Recognise that
Evolution and				 Recognise that living things have
Inheritance				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.
				parents.





					 Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
Seasonal Changes	 Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. Understand the effect of changing seasons on the natural world around them. 	 observe changes across the four seasons. observe and describe weather associated with the seasons and how day length varies. 			