	SCIENCE LONG TERM OVERVIEW							
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Autumn 1	Understanding the World	Animals including humans What are the names for all our body parts?	<td of="" second="" second<="" th="" the="" view=""><th>Light How does the distance between the object and the screen affect the size of shadows?</th><th>Year 4 Animals including humans (teeth and food chains) Why are teeth different? Image: Construct and their simple functions Image: Construct and their simple func</th><th>Year 5ForcesWhat are the differentforces and theireffects?Image: Solution of the second objects falltowards the Earthbecause of the force ofgravity acting betweenthe Earth and thefalling objectImage: Solution of the second object of airImage: Solution object of the second object of airImage: Solution object ob</th><th>Year 6 Animals including humans How does exercise affect our pulse rate? Image: Second Second</th></td>	<th>Light How does the distance between the object and the screen affect the size of shadows?</th> <th>Year 4 Animals including humans (teeth and food chains) Why are teeth different? Image: Construct and their simple functions Image: Construct and their simple func</th> <th>Year 5ForcesWhat are the differentforces and theireffects?Image: Solution of the second objects falltowards the Earthbecause of the force ofgravity acting betweenthe Earth and thefalling objectImage: Solution of the second object of airImage: Solution object of the second object of airImage: Solution object ob</th> <th>Year 6 Animals including humans How does exercise affect our pulse rate? Image: Second Second</th>	Light How does the distance between the object and the screen affect the size of shadows?	Year 4 Animals including humans (teeth and food chains) Why are teeth different? Image: Construct and their simple functions Image: Construct and their simple func	Year 5ForcesWhat are the differentforces and theireffects?Image: Solution of the second objects falltowards the Earthbecause of the force ofgravity acting betweenthe Earth and thefalling objectImage: Solution of the second object of airImage: Solution object of the second object of airImage: Solution object ob	Year 6 Animals including humans How does exercise affect our pulse rate? Image: Second

	Understanding the	Seasonal change (1	Animals including	Rocks	Animals including	Properties and	Electricity
	World	week)	humans	How are fossils	humans	changes in materials	How does the voltage
	☆☆ -Observe &	What changes happen	Which offspring	formed?	What do the different	(properties of	of the batteries affect
	່ interact with	in Autumn?	belongs to which	compare and	parts of the digestive	material statements)	the other components
	natural processes such	പ്പം -Observe	animal?	☆☆ group together	system do?	What are the	in a circuit?
	as ice melting or grass	ැ _{ලා} -Observe ලා changes that	-notice that	different kinds	చ్చి - describe the	properties of different	-associate
	growing	take place in	かって -notice that なか animals	of rocks on the basis of	simple functions	materials?	-associate 사☆ ô the brightness of
	☆☆ -Look for	Autumn	including humans	their appearance	of the basic parts of).(~,)~, '	0
	🛱 changes of	-Observe the	have offspring that	and simple physical	the digestive system in		a lamp or the volume
	season, what we see,	weather	grow into adults	properties	humans.	together	of a buzzer with the
	hear & feel	associated with		☆ _☆ - describe in		everyday materials on	number and voltage of
	-To take care of	Autumn and how the	Dr Donald Palmer	🖈 simple terms	Charlotte Armah	the basis of their	cells used in the circuit
	animals in the	day length changes.	/	how fossils are formed	(Nutritional	properties,	-compare and give
	world around us,		Plants (2 weeks)	when things that have	biochemist)	including their	かった reasons for ない variations in
2	recognising their	Everyday materials	Do bigger bulbs grow	lived are		hardness, solubility,	
Ē	needs e.g bird feeder	What are different	into bigger plants?	trapped within rock		transparency,	how components
Autumn	or hedgehog house	objects made from?	☆☆ -Observe and	☆☆ - recognise that		conductivity (electrical	function, including the
Au		-Distinguish ☆ between an	☆ describe how	soils are made		and thermal), and	brightness of bulbs, the loudness of
			seeds and bulbs grow	from rocks and organic		response to magnets.	buzzers and the on/off
		object and the materials from which	into mature plants (Planning and planting	matter		Becky Shroeder	position of switches
		it is made	bulbs outside ready for	Mary Anning (Fossilist)		(Inventor of the glow	
		I de antifu e a d	Spring 2)	Christopher Jackson		sheet)	숫슈 -use recognised ☆ symbols when
		· Identify and ☆ name a variety	Spring 2)	(geologist)		Dr Nira Chamberlain	representing a simple
		of everyday		(Beologist)			circuit in a diagram.
		materials, including					
		wood, plastic					Mo Ibrahim
						(Depending on length	(mobile phone)
		William Addis				of term begin Spring	Hertha Ayrton
		(inventor of the				1)	(Engineer and
		toothbrush)					inventor)
		, Dr Pearl Agyakwa					·
		(materials scientist)					

	Understanding the	Seasonal Change	Animals including	Forces and Magnets	States of matter	Properties and	Living things and their
	World	What changes happen	humans	Which surface is best	What are the	changes in materials	habitats
	ናረጉ የያ -Look for	in Spring?	What do animals need	to stop you slipping?	differences between	(changes of material	What do different
	公式 谷 -Look for 会 Changes	 Observe changes that 	to survive?	- compare how	solid, liquid and	statements)	types of
	of winter,	🐼 changes that	·find out and	things move on	gases?	How can materials	microorganisms do?
	what we see, hear &	take place in Spring	🕁 🗂 describe the	different surfaces	ላዲ 🏠 -compare	change? Can these	- describe
	feel	☆☆ -Observe the	basic needs of animals,	값 _소 - notice that	☆☆ 🔅 -compare ☆☆ 🔅 and group	changes always be	న్న స్ట్ర - describe ఇద్దు how living
	☆ _☆ -Recognise	່ weather	including humans for	some forces	materials	reversed?	things are
	ສີ some	associated with Spring	survival (water, food	need contact between	together, according to	☆ _☆ - know that	classified into broad
	environments that are	and how the day	and air)	two objects, but	whether they are	🖈 🗋 some materials	groups according to
	different from the one	length changes	☆☆ -Describe the	magnetic forces can	solids, liquids or gases	will dissolve in liquid	common
	in which they live in	📥 😚 -Compare	importance for	act at a distance	-observe that	to form a solution, and	observable
		 Compare seasonal 	humans of exercise,	☆☆ - observe how	្នុំជ្ជ some materials	describe how	characteristics and
		changes in	eating the right	ີ 🚰 magnets attract	change state	to recover a substance	based on similarities
		Spring to Autumn	amounts of different	or repel each other	when they are heated	from a solution	and differences,
			types of food, and	and attract some	or cooled, and	🗲 👔 - use	including
Η		John Dalton	hygiene.	materials and not	measure or research	🔅 knowledge of	microorganisms,
ng		(British weather		others	the temperature at	solids, liquids and	plants and animals
Spring		pioneer)	Bear Grylls	값 _소 - compare and	which this happens in	gases to decide how	 give reasons for
S			(Survival expert)	່ສິ່ group together	degrees Celsius (°C)	mixtures might be	 classifying plants and
				a variety of everyday	- identify the	separated, including	🐶 plants and
				materials on the basis	· identify the ☆☆ part played by	through filtering,	animals based on
				of whether they are	evaporation and	sieving and	specific characteristics.
				attracted to a magnet,	condensation in the	evaporating	
				and identify some	water cycle and	 - give reasons, based on 	Carl Linneus
				magnetic materials	associate the rate of	😂 based on	(Naturalist and
				☆ _☆ - describe	evaporation with	evidence from	botanist)
				🕸 magnets as	temperature.	comparative and fair	Nazifa Tabassum
				having two poles		tests, for the particular	(Microbiologist and
				숬 _슈 - predict	Daniel Fahrenheit	uses of everyday	science
				whether two	(Inventor of the	materials, including	communicator)
				magnets will attract or	thermometer)	metals, wood and	
				repel each other,	Dr Fangxian Fang	plastic	
				depending on which	(Earth scientist)	న్నచ్చ - demonstrate	
				poles are facing.		that dissolving,	
						mixing and changes of	

William Gilbert	state are reversible
(magnetism and	changes
electricity)	☆☆ - explain that ★ some changes
Jyoti Sehdey (senior	່ສີ່ some changes
civil engineer)	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.

	Understanding the	Plants	Plants	Forces and magnets	Electricity	Earth and space	Light
	World	What are the most	What happens to my	(Continued from	What happens when	How does the length	How do we see
	പ്പും പ്രം -Look for	common British plants	seed/bulb after I have	previous half term)	there is a break in the	of daylight hours	things?
	☆☆ 🔅 -Look for ☆☆ 🌮 changes	and where can we	planted it?	Does the size and	circuit?	change in each	☆☆ -use the idea
	of spring,	find them?	Observe- کی مرکز	shape of an object	-identify	season?	that light travels
	what we see, hear &	☆☆ - Identify and	သည့် -Observe နားစွာ and	affect how strong it	소 -identify ☆☆ common	describe the	in straight lines to
	feel	ີ 🚰 🖌 name a variety	describe how	is?	appliances that	자슈 movement of	explain that objects
		of common wild	seeds and bulbs grow		run on electricity	the Earth, and	are seen because they
		and garden plants,	into mature plants	Plants [last two	-construct a simple	other planets, relative	give out or reflect light
		including deciduous	숬 _소 -Find out and	weeks]	series electrical circuit,	to the Sun in the	into the eye
		and evergreen trees	🖈 🔪 describe how	යා - identify and හි describe the	identifying and naming	solar system	·explain that we
		- Identify and	plants need water,		its basic parts,	☆☆ - describe the	See things
		describe the	light and a suitable	functions of different	including cells, wires,	🖈 🕺 movement of	because light travels
		basic structure	temperature to grow	parts of flowering	bulbs, switches and	the Moon relative to	from light sources to
		of a variety of	and stay healthy.	plants: roots,	buzzers	the Earth	our eyes or from light
		common flowering		stem/trunk, leaves and	·identify	న్నచ్చ - describe the	sources to objects and
2		plants, including trees	George Washington	flowers.	🛧 whether of hot	🖈 ື Sun, Earth and	then to our eyes
ing			Carver		a lamp will light	Moon as	 -use the idea that light travels
Spring		Beatrix Potter	(Botanist)		in a simple series	approximately	U
•)		(Botanist, arborist)	Agnes Arber		circuit, based on	spherical bodies	in straight lines to
			(Botanist)		whether or not the	· use the idea of	explain why shadows
					lamp is part of a	😭 the Earth S	have the same shape
					complete loop with a	rotation to	as the objects that cast
					battery	explain day and night	them.
					☆☆ -recognise that	and the apparent	0.4.0
					a switch opens	movement of the sun	CV Rayman
					and closes a circuit	across the sky.	(Physicist)
					and associate this with		Professor Colin Webb
					whether or	Mai Jemison	(Professor of Laser
					not a lamp lights in a	(Astronaut)	Physics)
					simple series circuit	Dr Helen Mason	
					☆☆ -recognise	(Solar scientist)	
					ສື່ some common		
					conductors and		
					insulators, and		
					associate metals with		

		being good conductors.	
		Michael Faraday (Physicist) Hertha Ayrton (Electrical engineer and suffragette)	

	Understanding the	Animals including	Living things and their	Plants	Sound	Living things and their	Evolution and
	World	humans	habitats	Which conditions help	How are sounds	habitats	inheritance
	-Name and	What do different	What conditions do	seeds germinate	made?	What are the	How have different
	☆☆ describe some	animals eat?	different animals	faster?	☆ _☆ -identify how	differences between	plants and animals
	plants, including	· identify and	prefer?	ം explore the	់ដ្ឋិ sounds are	different animals	adapted to their
	fruit & vegetables	ີ 🖓 🖌 name a variety	☆ _☆ -explore and	ہے۔ explore the ج requirements of	made, associating	lifecycles?	environment over
	☆☆ -Draw attention	of common	ompare the	plants for life and	some of them with	ැ - describe the ල differences in	time?
	to the weather	animals including fish,	differences between	growth (air, light,	something vibrating		 for the second se
	& provide	amphibians, reptiles,	things that ate living,	water, nutrients from	స్పాచ్డ -recognise that	the life cycles of a	-
	opportunities to	birds and mammals	dead and things that	soil, and room to	vibrations from	mammal, an	things have
	record the weather	・identify and なか name a variety	have never been alive	grow) and how they	sounds travel through	amphibian, an insect	changed over time and
	ជ្ជ _ជ ្ជ 💊 -Close		ිිිිිිිිිිිිිිිිිිිිිිිිිිිිිිිිිිිි	vary from plant to	a medium to the ear	and	that fossils provide
		of common	🖈 🔪 most living	plant	☆☆ -find patterns	a bird	information about
	observation of	animals that are	things live in habitats	☆☆ - investigate the	🖈 🕈 between the	· describe the 삶 life process of	living things that
_	natural world, draw	carnivores, herbivores	to which they are	way in which	pitch of a sound and		inhabited the Earth
۲.	pictures of plants and	and omnivores	suited and describe	water is transported	features of the object	reproduction in	millions of years ago
Summer 1	name some	ැදු - describe and හී compare the	how different animals	within plants	that produced it	some plants and	న్నచ్చ - recognise that
Б	☆☆ -Observe &	-	and plants, and how	公 _会 谷 - explore なな 谷 the part	స్తాచ్చా -find patterns	animals.	ີສີ່ living things
Š	🖈 🗋 interact with	structure of a variety	they depend on each		between the		produce offspring of
	natural processes such	of common animals	other	that flowers play in the	volume of a sound and	Malaika Vaz	the same kind, but
	as floating & sinking	(fish, amphibians,	ふた。 -Identify and name	life cycle of flowering	the strength of the	(National Geographic	normally offspring
		reptiles, birds and	្ត្រូវវ (ភ្វី and name	plants, including pollination, seed	vibrations that	explorer)	vary and are not identical to their
		mammals, including	a variety of plants and animals in	formation and seed	produced it		
		pets)	their habitats,	dispersal.	☆☆ -recognise that ☆ sounds get		parents
		Malaika Vaz (Wildlife	including	uispersai.	fainter as the distance		がなる。 ^{- identify} なる。 how
		videographer)	microhabitats	Ahmed Mumin Warfa	from the sound source		animals and
		videographer)	meronabitats	(Botanist)	increases.		plants are adapted to
			Rachel Carson	Maria Sibylla Merian	increases.		suit their environment
			(Marine Biologist)	(documented the	Evelyn Glennie		in different
			Tanesha Aleen	relationship between	(Deaf percussionist)		ways and that
			(Zoologist)	plants and insects)	Karrie Keyes (Audio		adaptation may lead
			(200:08:00)		engineer)		to evolution.

	Understanding the	Seasonal Change	Living things and their	Animals including	Living things and their	Animals including	Evolution and
	World	How does a tree/plant	habitats (continued)	humans	habitats	humans	inheritance
	న్నచ్ద -Observe how దార్థి animals	change over the year?	What do different	What is the function	How can living things	Can I identify all the	(Continued from
		 Construction Const	animals eat?	of the skeleton?	be grouped and	stages of the human	previous half term)
	behave differently as	0	-Identify	分子である - identify なでの that	classified?	lifecycle?	
	seasons change -	across the four	`۞ and name a		-recognise that	 - describe the changes as 	Charles Darwin
	Children make	seasons	variety of plants and	animals, including	·recognise that ☆☆ living things can	0	(Naturalist. Developed
	comments of animals	 Observe and describe 	animals in their	humans, need the	be grouped in a	humans develop to old	theory of evolution)
	they have observed &		habitats, including	right types and	variety of ways	age.	Rosalind Franklin
	draw them	weather associated	microhabitats	amount of nutrition,	තිය හා -explore ස් හි and use		(Discovered structure
	었 _슈 ·Name and # describe	with the seasons and	(continued)	and that they cannot		Sigmund Freud	of DNA)
		how day length varies	-Describe how animals	make their own food;	classification keys to	Olivia Guthrie Smith	
	animals they have		☆ _☆ obtain their	they get nutrition from	help group, identify	(physiotherapist)	
7	seen & talk about how	Plants (2 weeks)	food from	what they eat	and name a variety of		
	they can be cared for	 Identify and name a 	plants and other	☆☆ - identify that	living things in their		
Summer	& what they need.	i ante a	animals, using the idea	A numans and	local and wider		
Ш	값 _값 -Provide	variety of common	of a simple food chain,	some other animals	environment		
Š	Opportunities to	wild and garden	and identify and name	have skeletons and	かか recognise that な environments		
	look at lifecycles eg frogs and butterflies.	plants, including deciduous and	different sources of food.	muscles for support,			
		evergreen trees	1000.	protection, and movement.	can change and that this can		
	☆☆ ^{-Observe &} ☆ interact with	evergreen trees	Plants (last 2 weeks –	movement.	sometimes pose		
	natural		observing full	Willhelm Rontgen	dangers to living		
	processes such as		lifecycle)	(invented the x-ray)	things.		
	objects casting a		How has the plant	Zubair Haleem			
	shadow.		changed over time?	(Academy physio at	Prem Singh Gill		
				Arsenal)	(Polar Scientist)		
			← 👸Observe and	- /	,,		
			describe how seeds				
			and bulbs grow into				
			mature plants				

Key

(i) (i)	Build – area of study that builds on previous area of learning	Revisit – spaced retrieval
00	Link – area of study links to another curriculum area	New - Introduce new content