

Science Curriculum Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2 Science Week	Summer 1	Summer 2
Reception	Seasons and the Natural World	Space	Plants and Animals- observations	Growth- Planting Seeds	States of Matter	Electricity (safety)
Year 1	Animals Including Humans Seasonal Changes (ongoing Autumn/ Winter)	Everyday Materials	Animals including Humans	Seasonal Changes (ongoing) Spring	Plants	Seasonal Changes (ongoing)
Year 1 Key Concepts	See Aut 2 and Spring 1	Distinguish between an object and the material from which it is made Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and	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	Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies.	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees Identify and describe the basic structure of a variety of common	Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies.
		rock Describe the simple physical	carnivores, herbivores and omnivores		flowering plants, including trees	



		properties of a	Describe and			
		variety of	compare the			
		everyday	structure of a			
		materials	variety of			
		Compare and	common animals			
		group together a	(fish,			
		variety of	amphibians,			
		everyday	reptiles, birds and			
		materials on the	mammals,			
		basis of their	including pets)			
		simple physical	Identify, name,			
		properties.	draw and label			
			the basic parts of			
			the human body			
			and say which			
			part			
			of the body is			
			associated with			
			each sense.			
Year 2	Living things and	Animals including	Uses of everyday	Animals including	Plants- ongoing	Living things and
	their habitats	humans	materials	humans- Life	throughout the	their habitats
				cycles	year	Inc microhabitats
	Plants ongoing		Plants ongoing			
	through the year		through the year			
Year 2 Key	Explore and	Find out about	Identify and	Notice that	Observe and	Identify and
Concepts	compare the	and describe the	compare the	animals,	describe how	name a variety of
	differences	basic needs of	suitability of a	including	seeds and bulbs	plants and
	between things	animals,	variety of	humans, have		animals in their



	that are living,	including	everyday	offspring which	grow into mature	habitats,
	dead, and things	humans, for	materials,	grow into adults	plants	including
	that have never	survival (water,	including		Find out and	micro⊠habitats
	been alive	food and air)	wood, metal,		describe how	Describe how
	Identify that most	Describe the	plastic, glass,		plants need	animals obtain
	living things live	importance for	brick, rock, paper		water, light and a	their food from
	in habitats to	humans of	and cardboard		suitable	plants and other
	which they are	exercise, eating	for particular		temperature to	animals, using
	suited and	the right	uses		grow	the idea
	describe	amounts of	Find out how the		and stay healthy.	of a simple food
	how different	different types of	shapes of solid			chain, and
	habitats provide	food, and	objects made			identify and
	for the basic	hygiene.	from some			name different
	needs of different		materials can be			sources of food.
	kinds of animals		changed by			
	and		squashing,			
	plants, and how		bending, twisting			
	they depend on		and stretching.			
	each other					
Year 3	Rocks	Forces	Plants	Plants	Animals including	Light
					humans	
Year 3 Key	Compare and	Compare how	Identify and descri	be the functions of	Identify that	Recognise that
Concepts	group together	things move on	different parts of flowering plants:		animals,	they need light in
	different kinds of	different surfaces	roots,		including	order to see
	rocks on the		stem/trunk, leaves and flowers		humans, need	things and that
	basis of their	some forces			the right types	dark is the
	appearance	need contact				absence of



and simple	between two	Explore the requirements of plants for	and amount of	light
physical	objects, but	life and growth (air, light, water,	nutrition,	Notice that light is
properties	magnetic forces	nutrients from	and that they	reflected from
Describe in	can	soil, and room to grow) and how they	cannot make	surfaces
simple terms how	act at a distance	vary from plant to plant	their own food;	Recognise that
fossils are formed	Observe how	Investigate the way in which water is	they get nutrition	light from the sun
when things that	magnets attract	transported within plants	from what they	can be
have lived are	or repel each	Explore the part that flowers play in	eat	dangerous and
trapped within	other and attract	the life cycle of flowering plants,	Identify that	that there are
rock	some materials	including	humans and	ways to protect
Recognise that	and not	pollination, seed formation and seed	some other	their eyes
soils are made	others	dispersal.	animals have	Recognise that
from rocks and	Compare and		skeletons and	shadows are
organic matter.	group together a		muscles for	formed when the
	variety of		support,	light from a light
	everyday		protection and	source is blocked
	materials on the		movement.	by
	basis of whether			an opaque object
	they are			Find patterns in
	attracted to a			the way that the
	magnet, and			size of shadows
	identify some			change.
	magnetic			
	materials			
	Describe			
	magnets as			
	having two poles			



Year 4	States of Matter	Predict whether two magnets will attract or repel each other, depending on which poles are facing.	Floatrigity	Sound	Living things and	Inventore
Year 4	States of Matter	Animals including humans	Electricity	Sound	Living things and their habitats	Inventors
Year 4 Key	Compare and	Describe the	Identify common	Identify how	Recognise that	Scientific Enquiry
Concepts	group materials	simple functions	appliances that	sounds are	living things can	
	together,	of the basic parts	run on electricity	made,	be grouped in a	
	according to	of the digestive	Construct a	associating some	variety of ways	
	whether they are	system in	simple series	of them with	Explore and use	
	solids, liquids	humans	electrical circuit,	something	classification	
	or gases	☑ identify the	identifying and	vibrating	keys to help	
	Observe that	different types of	naming its basic	Recognise that	group, identify	
	some materials	teeth in humans	parts,	vibrations from	and name a	
	change state	and their simple	including cells,	sounds travel	variety of living	
	when they are	functions	wires, bulbs,	through a	things in their	
	heated or cooled,	Construct and	switches and	medium to the	local and wider	
	and	interpret a variety	buzzers	ear	environment	
	measure or	of food chains,	Identify whether	Find patterns	Recognise that	
	research the	identifying	or not a lamp will	between the	environments	
	temperature at	producers,	light in a simple	pitch of a sound	can change and	
	which this	predators and	series circuit,	and features of	that this can	
	happens in	prey				



	degrees Celsius		based on	the object that	sometimes pose	
	(°C)		whether or	produced it	dangers	
	Identify the part		not the lamp is	Find patterns	to living things.	
	played by		part of a	between the		
	evaporation and		complete loop	volume of a		
	condensation in		with a battery	sound and the		
	the water cycle		Recognise that a	strength of the		
	and		switch opens and	vibrations that		
	associate the		closes a circuit	produced it		
	rate of		and associate	Recognise that		
	evaporation with		this with whether	sounds get		
	temperature.		or	fainter as the		
			not a lamp lights	distance from the		
			in a simple series	sound source		
			circuit	increases.		
			Recognise some			
			common			
			conductors and			
			insulators, and			
			associate metals			
			with being			
			good conductors.			
Year 5	Materials-	Forces	Living things	Space	Animals including	Animals including
	changing states				humans	humans
Year 5 Key	🛮 compare and	🛮 explain that	🛮 describe the	☑ describe the	🛮 describe the changes as humans	
Concepts	group together	unsupported	differences in the	movement of the	develop to old age.	
	everyday	objects fall	life cycles of a	Earth, and other		
	materials on the	towards the Earth	mammal, an			



basis of their	because of the	amphibian, an	planets, relative	
properties,	force of	insect and	to the Sun in the	
including their	gravity acting	a bird	solar system	
hardness,	between the	🛮 describe the life	🛮 describe the	
solubility,	Earth and the	process of	movement of the	
transparency,	falling object	reproduction in	Moon relative to	
conductivity	⊠ identify the	some plants and	the Earth	
(electrical and	effects of air	animals.	🛮 describe the	
thermal), and	resistance, water		Sun, Earth and	
response to	resistance and		Moon as	
magnets	friction, that act		approximately	
know that some	between		spherical bodies	
materials will	moving surfaces		🛮 use the idea of	
dissolve in liquid	□ recognise that		the Earth's	
to form a	some		rotation to	
solution, and	mechanisms,		explain day and	
describe how	including levers,		night and the	
to recover a	pulleys and		apparent	
substance from a	gears, allow a		movement of the	
solution	smaller force to		sun across the	
use knowledge	have a greater		sky.	
of solids, liquids	effect.			
and gases to				
decide how				
mixtures might				
be				
separated,				
including through				



filtering, 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			
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 6	Light- How we	Living things and	Evolution and	Adaptation	Electricity	Animals including
	see things	their habitats	Inheritance			humans
Year 6 Key		☑ describe how	□ recognise that live	ing things have	🛮 associate the	☑ identify and
Concepts	light appears to	living things are	changed over time	and that fossils	brightness of a	name the main
	travel in straight	classified into	provide		lamp or the	parts of the
	lines	broad groups	information about	living things that	volume of a	human
	🛮 use the idea	according to	inhabited the Earth	millions of years	buzzer with the	circulatory
	that light travels	common	ago		number and	system, and
	in straight lines to	observable	□ recognise that liv	ing things produce	voltage of cells	describe the
	explain that	characteristics	offspring of the sar	ne kind, but	used in the circuit	functions of the
	objects are seen	and based on	normally offspring		🛮 compare and	heart, blood
	because they	similarities and	vary and are not id	entical to their	give reasons for	vessels and
	give out or reflect	differences,	parents		variations in how	blood
	light into the eye	including micro	🛮 identify how anim	nals and plants are	components	□ recognise the
	🛮 explain that we	organisms, plants	adapted to suit the	ir environment in	function,	impact of diet,
	see things	and animals	different		including the	exercise, drugs
	because light	⊠ give reasons for	ways and that ada	ptation may lead	brightness of	and lifestyle on
	travels from light	classifying plants	to evolution.		bulbs, the	the way their
	sources to our	and animals			loudness of	bodies
	eyes or	based on specific			buzzers and the	function
	from light	characteristics.			on/off position of	🛮 describe the
	sources to				switches	ways in which



obj	ejects and then		nutrients and
to	our eyes	symbols when	water are
⊠u	use the idea	representing a	transported
tho	at light travels	simple circuit in a	within animals,
in s	straight lines to	diagram.	including
ехр	plain why		humans.
sho	adows have		
the	e same		
sho	ape as the		
obj	ejects that cast		
the	em.		