

Science Curriculum Coverage



Year 1						
Term 1 (Seasonal	Term 3 (Everyday	Term 4 (Seasonal	Term 5 (Plants)	Term 6 (Animals		
Changes Autumn/Winter)	Materials	Changes Spring/Summer)		including Humans)		
	and recognise that the		different ways	Trumans)		
	-					
observe closely, usin	g simple equipment					
perform simple tests						
identify and classify						
use their observation	s and ideas to suggest	answers to questions				
gather and record da	ta to help in answering	questions				
identify and name a v	variety of common wild	l and garden plants, in	cluding deciduous and	l evergreen trees		
identify and describe	the basic structure of	a variety of common f	lowering plants, includ	ling trees		
identify and name a v	variety of common anir	nals including, fish, ar	nphibians, reptiles, bir	ds and mammals		
identify and name a v	ariety of common anir	nals that are carnivore	es, herbivores and omr	nivores		
describe and comparmammals including	re the structure of a va	riety of common anim	als (fish, amphibians, I	reptiles, birds and		
mammate metading p						
identify, name, draw associated with each	and label the basic pa	rts of the human body	and say which part of	the body is		
associated with each	1301130					
distinguish between	an object and the mate	erial from which it is m	ade			
identify and name a v	variety of everyday mat	erials, including wood	, plastic, glass, metal,	water, and rock		
describe the simple p	ohysical properties of a	a variety of everyday m	aterials			





compare and group together a variety of everyday materials on the basis of their simple physical properties							
observe changes across the four seasons							
observe and describe weather associated with the seasons and how day length varies							









	Year 2					
Term 1 (Living Things and Their Habitats)	Term 2 (Scientists and Inventors)	Term 3 (Use of Everyday Materials)	Term 4 (The Environment)	Term 5 (Plants)	Term 6 (Animals including Humans)	
ask simple questic	ons and recognise	that they can be ar	nswered in different	ways		
observe closely, us	sing simple equipr	nent				
perform simple tes	sts					
identify and classi	fy					
use their observati	ons and ideas to s	uggest answers to	questions			
gather and record	data to help in ans	wering questions				
explore and compa	are the differences	s between things th	nat are living, dead,	and things that ha	ve never been	
			they are suited and sand plants, and ho			
			•			
identify and name	a variety of plants	and animals in the	ir habitats, includin	ng microhabitats		
describe how anim		•	d other animals, usi	ng the idea of a sir	nple food chain,	
observe and descr	ibe how seeds and	bulbs grow into m	nature plants			
find out and descri	be how plants nee	ed water, light and	a suitable temperat	ture to grow and st	ay healthy	
notice that animal	s, including humaı	ns, have offspring v	which grow into adu	ilts		
find out about and	describe the basic	c needs of animals	, including humans	, for survival (wate	er, food and air)	





describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene						
identify and compa	are the suitability o	of a variety of every	/day materials, incl	uding wood, metal	, plastic, glass,	
brick, rock, paper a	and cardboard for	particular uses				
find out about peo	ple who have deve	eloped new materi	als (non-statutory)			
find out how the shapes of solid objects made from some materials can be changed by squashing, bending,						
twisting and stretching						





	Year 3					
Term 1 (Light)	Term 2 (Scientists and Inventors)	Term 3 (Forces and Magnets)	Term 4 (Rocks)	Term 5 (Plants)	Term 6 (Animals including Humans)	
ask relevant quest	ions and use diffe	ent types of scien	tific enquiries to an	swer them		
set up simple prac	tical enquiries, co	mparative and fair	tests			
_			appropriate, take a hermometers and d		nents using	
gather, record, cla	ssify and present o	data in a variety of	ways to help in ans	wering questions		
record findings usi	ng simple scientif	c language, drawii	ngs, labelled diagra	ms, keys, bar chai	ts, and tables	
report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions						
use results to drav further questions	v simple conclusio	ns, make prediction	ons for new values,	suggest improven	nents and raise	
identify differences	s, similarities or ch	nanges related to s	imple scientific ide	as and processes		
use straightforwar	d scientific eviden	ce to answer ques	tions or to support t	heir findings		
identify and descri flowers	be the functions o	f different parts of	flowering plants: ro	ots, stem/trunk, le	eaves and	
explore the require and how they vary	· · · · · · · · · · · · · · · · · · ·	- ,	air, light, water, nuti	rients from soil, ar	nd room to grow)	
investigate the way	y in which water is	transported withir	plants			
explore the part th and seed dispersa		he life cycle of flov	vering plants, includ	ding pollination, se	eed formation	
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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 huma movement	ns and some othe	r animals have ske	letons and muscles	s for support, prote	ection and	
compare and grou properties	p together differer	nt kinds of rocks or	the basis of their a	ppearance and sir	nple physical	
describe in simple	terms how fossils	are formed when	things that have live	ed are trapped with	nin rock	
recognise that soil	s are made from r	ocks and organic n	natter			
recognise that the	y need light in orde	er to see things and	I that dark is the abs	sence of light		
notice that light is	reflected from sur	faces				
recognise that ligh	t from the sun can	l be dangerous and	I that there are ways	to protect their e	yes	
recognise that sha	dows are formed v	when the light from	a light source is blo	ocked by a solid ol	bject	
find patterns in the	way that the size	of shadows chang	е			
compare how thing	gs move on differe	nt surfaces				
notice that some fo	orces need contac	t between two obj	ects, but magnetic	l forces can act at a	distance	
observe how magr	nets attract or repe	el each other and a	ttract some materia	als and not others		
			rials on the basis of	f whether they are	attracted to a	
magnet, and ident	ify some magnetic	materials				
	<u> </u>					
describe magnets	as having two pole	es				
predict whether tw	o magnets will att	ract or repel each	other, depending or	n which poles are t	facing	





Year 4					
Term 1 (Sound)	Term 2 (Scientists and Inventors)	Term 3 (Electricity)	Term 4 (States of Matter)	Term 5 (Living Things and Their Habitats	Term 6 (Animals including Humans)
ask relevant quest	ions and use differ	ent types of scien	tific enquiries to ans	swer them	
set up simple prac	tical enquiries, co	mparative and fair	tests		
<u>-</u>			appropriate, take a hermometers and d		nents using
·		, ,			
gather, record, cla	ssify and present o	data in a variety of	ways to help in ansv	wering questions	
record findings usi	ng simple scientifi	ic language, drawi	ngs, labelled diagra	ms, keys, bar chai	ts, and tables
report on findings results and conclu	•	cluding oral and wr	itten explanations,	displays or preser	tations of
use results to drav further questions	v simple conclusio	ns, make prediction	ons for new values,	suggest improven	nents and raise
identify difference	s, similarities or ch	nanges related to s	imple scientific ide	as and processes	
use straightforwar	d scientific eviden	ce to answer ques	tions or to support t	heir findings	
recognise that livir	ng things can be gr	ouped in a variety	of ways		
explore and use cl wider environment		o help group, ident	ify and name a varie	ety of living things	in their local and
recognise that env	ironments can cha	ange and that this	can sometimes pos	e dangers to living	things
describe the simpl	e functions of the	basic parts of the	digestive system in	humans	
identify the differe	nt types of teeth in	humans and their	simple functions		





construct and inte	construct and interpret a variety of food chains, identifying producers, predators and prey					
compare and grou	p materials togeth	er, according to w	hether they are soli	ds, liquids or gase	S	
observe that some	materials change	state when they a	re heated or cooled	l , and measure or	research the	
temperature at wh	ich this happens i	n degrees Celsius	(°C)			
identify the part place evaporation with to		on and condensati	on in the water cycl	e and associate th	ne rate of	
-						
identify how sound	ls are made, asso	ciating some of the	em with something v	vibrating		
recognise that vibr	ations from sound	ls travel through a	medium to the ear			
find patterns betw	een the pitch of a s	l sound and feature	េ s of the object that រុ	I oroduced it		
•	·					
recognise that sou	nds get fainter as	the distance from	 the sound source in	ICTERSES		
recognise that sou	nds get fainter as				I	
identify common a	ppliances that rur	on electricity		<u>-</u>		
construct a simple bulbs, switches ar		circuit, identifying	and naming its basi	c parts, including	cells, wires,	
identify whether or a complete loop w		ht in a simple seri	es circuit, based on	whether or not the	e lamp is part of	
a complete loop w	itira battory					
recognise that a sv	vitch opens and cl	oses a circuit and	associate this with	ı whether or not a la	ı amp lights in a	
simple series circu	-					
recognise some co	mmon conductor	s and insulators, a	nd associate metal	s with being good	conductors	





	Year 5						
Term 1 (Forces)	Term 2	Term 3 (Earth	Term 4	Term 5 (Living	Term 6		
	(Scientists and Inventors)	and Space)	(Properties and Changes of	Things and Their Habitats	(Animals including		
	inventors)		Materials)	Their Habitats	Humans)		
plan different type	s of scientific enq	uiries to answer qu	iestions, including r	ecognising and co	, , , , , , , , , , , , , , , , , , ,		
variables where ne	ecessary						
		f scientific equipm	ent, with increasing	gaccuracy and pre	ecision, taking		
repeat readings wh	nen appropriate	1					
	~		scientific diagrams	and labels, classit	fication keys,		
tables, scatter gra	phs, bar and line g	raphs					
use test results to	make predictions	to set up further co	omparative and fair	tests			
report and present	findings from enq	uiries, including c	onclusions, causal i	relationships and	explanations of		
and degree of trus	t in results, in oral	and written forms	such as displays an	d other presentati	ons		
identify scientific e	evidence that has l	been used to supp	ort or refute ideas o	r arguments			
describe the differ	ences in the life cy	/cles of a mammal	, an amphibian, an i	nsect and a bird			
describe the life pr	ocess of reproduc	ction in some plant	s and animals				
describe the chang	ges as humans de	velop to old age					
compare and grou	p together everyda	ı ay materials on the	basis of their prope	erties, including th	eir hardness,		
		-	ermal), and respons	_	•		
know that some m	aterials will dissol	ve in liquid to form	a solution, and des	scribe how to reco	ver a substance		
from a solution		•	·				
		gases to decide he	ow mixtures might b	e separated, inclu	iding through		
filtering, sieving an	d evaporating	T					
-		·	d fair tests, for the p	articular uses of e	veryday		
materials, includir	ng metals, wood ar	nd plastic					





demonstrate that	demonstrate that dissolving, mixing and changes of state are reversible changes					
			ew materials, and th		_	
usually reversible,	including changes	s associated with b	ourning and the acti	on of acid on bica	rbonate of soda	
describe the move	ement of the Earth,	and other planets	, relative to the Sun	in the solar syster	m	
describe the move	ement of the Moon	relative to the Ear	th			
describe the Sun,	Earth and Moon as	approximately sp	herical bodies			
use the idea of the the sky	Earth's rotation to	explain day and n	ight and the appare	ent movement of th	ne sun across	
explain that unsup Earth and the fallir	•	l towards the Earth	n because of the for	ce of gravity acting	g between the	
identify the effects	of air resistance,	water resistance a	nd friction, that act	between moving	surfaces	
recognise that son effect	ne mechanisms, ir	ncluding levers, pu	lleys and gears, allo	ow a smaller force	to have a greater	
find out about the	work of naturalists	s and animal behav	viourists (non-statu	tory)		
describe how scie	ntific ideas have c	hanged over time (non-statutory)			





Year 6					
Term 1 (Light)	Term 2 (Scientists and Inventors)	Term 3 (Electricity)	Term 4 (Evolution and Inheritance)	Term 5 (Living Things and Their Habitats	Term 6 (Animals including Humans)
plan different type variables where ne		uiries to answer qu	estions, including r	ecognising and co	ntrolling
variables where he	- Coccury				
take measuremen repeat readings wh		f scientific equipm	ent, with increasing	accuracy and pre	ecision, taking
record data and re tables, scatter gra	_		scientific diagrams	and labels, classi	fication keys,
use test results to	make predictions	to set up further co	omparative and fair	tests	
•		•	onclusions, causal ı	•	•
and degree of trust	in results, in oral	and written forms	such as displays an I	d other presentati	ons
i da mais i a maisi a .					
identify scientific e	evidence that has t	een usea to supp	ort or refute ideas o	r arguments	
			ups according to col cro-organisms, plai		characteristics
give reasons for cla	assifying plants an	d animals based c	n specific characte	ristics	
identify and name blood vessels and		he human circulat	ory system, and de	scribe the functior	ns of the heart,
recognise the impa	act of diet, exercise	e, drugs and lifesty	le on the way their I	oodies function	
describe the ways	in which nutrients	and water are trar	nsported within anin	nals, including hui	mans
			that fossils provide	e information abou	ıt living things
that inhabited the	⊏artri millions of ye	zars ago			





recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents						
identify how anima	als and plants are a	adapted to suit the	ir environment in di	fferent ways and t	hat adaptation	
may lead to evolut	ion					
recognise that ligh	t appears to travel	in straight lines				
use the idea that li light into the eye	ght travels in strai	ght lines to explain	that objects are se	en because they g	ive out or reflect	
explain that we see and then to our eye	•	ght travels from lig	ght sources to our e	yes or from light so	ources to objects	
use the idea that li that cast them	ght travels in straig	ght lines to explain	why shadows have	the same shape a	as the objects	
associate the brigh circuit	ntness of a lamp o	r the volume of a b	uzzer with the numb	per and voltage of	cells used in the	
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 switches						
use recognised sy	mbols when repres	senting a simple ci	rcuit in a diagram			