

Science Progression Map

<u>Coverage key</u>

 Autumn 1
 Autumn 2
 Spring 1
 Spring 2
 Summer 1
 Summer 2

Working Scientifically

Nurse	ery					Rece	eption					Year	1					Year	2				
Key v	vocab	ulary:				Obse	erve					Obsei	rvatio	n				Pred	iction				
Explo	ore					Reco	ord					Classi	fy					Fair t	ests				
												Identi	ify					Resu	lts				
												Data						Anal	yse				
												Equip	ment										
												Test											
												Ask sir	mple :	scienti	fic que	estion	S	Ask s	imple	and r	elevar	nt scier	ntific
																		ques	tions				
Explo	ore and	d resp	ond to	differ	ent	To ta	lk abo	ut son	ne of t	he thir	ngs	Know	how	to use	simple	e		Knov	v how	to use	e equip	oment	
pher	omen	a				that	have k	been d	observ	ed		equip	ment	to mo	ike ob	serva	tions	corre	ectly t	o mak	e care	eful	
							_	_			_							obse	rvatic	ons			
	-			-		Talks	about	why t	things	happe	en	To kno	ow ho	w to c	arry o	ut sim	ple	To kr	now h	ow to	set up	and c	arry
						and	how th	nings v	vork.			tests						out s	imple	tests			
											•	To kno	ow ho	w to i	dentify	, and		To kr	now h	ow to	identif	y and	
												classif	fy thin	gs				class	ify thi	ngs loo	oking c	at simil	arities
													-	-					-	ences	-		



						findir		tunity odels, p			ow to e e foun	•	n to otł	ners	what	lhave	ow to e e found en fori	d out l		
						рны	Jgrup	15							unu			11		
								d talk o nenom oulary			ow to u questic		iple do	ata		nswer o	w to u questic		•	

Biology

Seed	Deciduous	Perennial
Stem	Evergreen	Variegated
Bud	Petal	Needles
Bulb		Cone
Water		Absorb
Soil		Nutrients
roots		Energy
To observe and talk about plants and notice changes and understand that they are living things	To know and name a variety of wild and common plants	To know and explain how seeds and bulbs grow into plants
		To know what a plant needs in
	deciduous and evergreen	order to grow and stay healthy
	Bud Bulb Water Soil roots To observe and talk about plants and notice changes and understand that they are living	Bud Petal Bulb Water Soil Foots To observe and talk about plants and notice changes and understand that they are living things To know and name a variety of wild and common plants Image: Comparison of the terms To understand the terms



						· ·	ant se ring pla		nd car	e for			stem			e plant d roots	-		egin to s of a p			d what	the
												To be	able	to lab	oel a ti	ree usir	ng						
												roots,	trunk,	bran	ches d	and lea	aves						
					_					_	_	correc	ctly		_		_						_
To re	cogni	se plai	nts as l	iving t	hings	To ur	ndersta	and th	e key	featur	es of	To be	able	to gro	ow a fl	owerin	ng	To b	e able	to gro	ow a p	olant to)
						a plc	nts life	ecycle				plant						supp	ort kn	owled	ge al	pout a	
	-		-														-	hum	ans bo	alance	ed die	<u>t</u>	
ΑΝΙΛ	AALS,II	NCLUD	ING H	UMAN	S	_						-						_					
Key '	Vocak	oulary:				Your	ıg/ old					herbiv	/ore					Resp	piration	n			
Peop	ble					Egg						carniv	/ore					Excre	etion				
Living	3					Hatc	h					omniv	ore/					Mov	ement	ł			
Baby	/					Chic	k					specie	es					Food	d grou	os (vita	amins	, miner	als,
Adul	t					Incul	oator					growt	h					prote	ein)				
Cate	erpillar					Bird						shelte	r					Preg	inant/	birth			
Coc	oon/ c	:hrystili	S			Resp	ect					Body	part r	ame	S			Spec	cies na	imes e	eg. Re	ptile	
Butte	erfly					Care	•					Skelet	on										
						Life c	cycle					Bones	;										
						Nam	es of 5	sense	S														
To no	otice c	lifferer	nces b	etwee	en	To re	cognis	se simi	larities	and		To kno	ow an	d nar	me a v	variety	of					variety	
peop	ole					diffe	rences	in livir	ng thir	ngs						ile, birc	ds,				•	tile, biro	
												fish ar	nd mo	ammc	ıls			fish c	and mo	ammc	Is and	d be ak	ole to
																		sort i	nto co	ategor	ies.	_	



the v	vorld		d then	ious at n, talki		To ta	lk abc	out life	cycles	5.		of th	now ho ne hum 1 to link	an bc	dy I co	an see	and	cycl hum	e for c	inimal nd kn	s (inclu	ges in a life ude at they
Child	lren e	ncour	aaed	to resp	pect	To sh		re an	d resp	ect to	livina	To st	now av	varen	ess of v	what		To kr	าดพ พ	hat ar	nimals	and
living			0.900.			thing			0				nals an)				surviv	
		,5					5					survi		a non		00010					50111	0
												301 11										
												Tob	e able	to clo		l nimals	by	Тон	nderst	I and th	hat to a	survive
													it they				IJу					ce diet-look
													egories				0					ometimes
													SQUIIES	-301011		iguug	C	food		1000	unu s	Julenines
																		1000	л 			
												Tala						Too				
													now wl						•			s need
													Ithy e.c	-	cise, d	liet an	a				cea ale	et and
	r	1			1			1	1		1	goo	d hygie	ene.				goo	d hygi T	ene		
			<u> </u>																			
	-			ABITAT	S																	
		oulary:				Care	•					Arct							hern h		here	
Light		< C				Cond	cern					Pola						Arct	ic circ	е		
Habi	tat					Envir	onmei	nt				Livin	g/ non	-living	/ neve	er lived		Sout	hern h	emisp	here	
						Natu	re					Dese	ert					Ada	ptatio	n		
						Recy	rcle					Rain	forest					Food	d chai	า		
						Pollu	tion					Prec	dator/ p	orey				Ecos	system			
To co	To care and water plants they					Show	/s care	e and	conce	ern for	living	To m	natch c	and no	ame ty	pes of	:	To u	nderst	and h	ow ha	bitats differ
have	ave grown					thing	is and	the er	nviron	ment		habi	itats to	types	of ani	mals		betv	veen t	ypes d	of anin	nals and
																		this m				



To seek out habitats in the		_	To identify things that are living, dead and never lived
setting-under logs, bug hotels		non-living	
	To be able to draw pictures of the	To start to look at what the natural	To understand how living things
	natural world	world provides for different	obtain food from the natural
		animals	world and to be able to name
			these food sources

Chemistry-materials

Nursery	Reception	Year 1	Year 2
Key vocabulary:	Natural	Classify	Push, pull, squash, bend
Material	Man made	Reversible/ non reversible changes	opaque
Senses	Wood, metal, etc	Waterproof	
Hard/ soft/ fluffy etc			
Push/pull			
Explore natural materials indoors and outdoors using their senses.	To notice and observe natural materials freely outdoors	To compare and group everyday materials whilst identifying what they are made from	To know which materials are suited to which purpose-name and identify the materials and draw simple conclusions
To explore different types of textures with different properties.	To be able to group materials together and give simple reasons why	Identify and name different materials	To investigate different materials for a specific reason-eg which material will make the best umbrella



Explo	ore and	d talk c	about k	now fo	orces	To ex	plore ł	now di	fferen	t													
feel.	-		-		-	equip	pment	may v	vork	-	-				-								
To ta	lk abo	ut who	at happ	cens to	C	To no	tice a	nd obs	serve o	chang	es to	To inv	restigc	ite and	d obse	rve		To inv	vestigo	ate hov	w mate	erials n	nay
differ	ent m	aterials	s-ice m	nelt, le	aves	mate	rials-co	ooking	I			chan	ges th	at hap	pen t	o mate	erials	char	ige wh	nen usii	ng diff	erent	
turn (crispy	-	-	_	-				-	-	-	wher	they	are ma	anipulo	ated.	-	force	s (ber	id, pus	h, pull,	squas	sh)

Physics-seasonal changes

Nurse	ery					Rece	ption					Year	1					Year	2				
Key V	'ocab	ulary:				Winte	er					Annu	al					Polar	night,	/day			
Weat	her (w	arm, c	cold, w	/indy,	etc).	Spring	g					Bianr	nual					midn	ight su	In			
						Sumr	ner					Noct	urnal					solstic	ce				
						Autu	mn																
						Hiber	nate																
To no	tice th	ie wec	ather t	nrougl	nout	Unde	rstanc	l how t	the sea	asons		To no	otice a	nd cor	nmen	t on		To de	evelop	furthe	er unde	erstand	ling
the ye	ear an	d disc	uss ho	w it		chan	ge an	d how	this cl	hange	es the	seasc	onal ch	nange				arou	nd the	weat	hers in	the	
chan	ges wl	nat we	e wear			world	l arour	nd the	m									seaso	ons an	d how	the le	ngth o	f the
																		day (chang	es ove	er seas	ons	
			-			How	and w	hy do	animo	als beh	nave	Introc	duce c	and de	scribe		-	Introd	duce t	echnic	cal		
							ently t	hrougł	nout th	ne sea	sons	voca	bulary	for sea	asona	l chan	ges.	vocc	bulary	/-hiber	nation	, noctu	Jrnal,
																		seaso	onal cl	nange	!		



Science at Home

Science is a subject that relates to our understanding of the processes of the world around us. As such, it is one of the most relevant subjects that children can engage with at home. We actively encourage children to continue their investigations at home, and even try some new ones. Below are some websites you might find useful to help your child learn Science at home

- National Geographic Kids <u>ngkids.co.uk/</u>
- Science Activities and Experiments <u>www.education.com/activity/kindergarten/science/</u>
- The Science Museum <u>www.sciencemuseum.org.uk/</u>
- Oxford Owl <u>www.oxfordowl.co.uk/for-home/school-year/subject-guides/science-at-primary-school/</u>
- The School Run <u>https://www.theschoolrun.com/simple-science-activities-try-today</u>