

## 3. Progression + Coverage of Core Knowledge & Skills – Science

Subject Leader: **A.Jacques** Year Group: **Year 2** 

	Autumn 1 7 weeks	Autumn 2 7 weeks	Spring 1 5 weeks	Spring 2 6 weeks	Summer 1 6 weeks	Summer 2 7 weeks
Topic	Great People Who Changed the World		All Creatures Great and Small		Land Ahoy!	
Coverage Overview	Materials: - Properties - Suitability of materials - Changing materials investigation (bending, stretching, twisting, squashing).	Materials: - Inventor of waterproof material – <i>Charles</i> Macintosh (History ink) - Waterproof materials investigation (floor book)	Living things and their habitats: - Animal classification (Year 1 recap) - Suitability of habitats: animals - Living and non-living	Living things and their habitats: - Food chain Animals: - Offspring	Living things and their habitats: - Suitability of habitats: plants Plants: - Plant investigation (floor book – needs for survival)	Animals - Humans: - Diet, hygiene and exercise - Human needs for survival (link to plant investigation)
Core Knowledge	I know a variety of materials. I understand that materials have properties. I understand that materials are suitable for different objects and are used for different purposes. I understand what a 'prediction' is. I know how to carry out an investigation to find something out. I understand that not all materials can be changed in the same way.	I know that I can use my findings to explain what I have find out.	I understand that animals are classified into groups depending on what they look like and what they eat. I understand what a habitat is. I understand what a micro- habitat is. I understand that different animals are suited to certain habitats. I understand the difference between something that is living, dead or has never been alive.	I know what a food chain is. I understand how food chains work. I know what 'offspring' means. I know that animals and humans have offspring which grow into adults.	I understand what a habitat is. I understand that different plants are suited to certain habitats. I know what most plants need in order to survive. I know how to carry out an investigation to find something out and I understand how to make it a 'fair test'. I know that I can use my findings to explain what I have find out.	I know what humans need in order to survive. I understand why humans need a healthy diet, to be hygienic and to exercise.

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	I can name a wide range of	I can recall who Charles	I can classify animals	I can explain what a food	I can give a clear and	I can explain what humans
	materials.	Macintosh is and explain what he invented.	depending on what they eat and explain how I have	chain is and what a food	precise definition of what a habitat is.	need in order to survive.
		what he invenied.	grouped them.	chain is showing (consumer, producer, predator).	habilaris.	l can compare what a
	I can classify objects depending on the material they are made	I can give a prediction,	grouped mem.	producer, predator).	I can classify plants into	human needs for survival
	from.	using what I already know	l can classify animals	I can create a food chain to	different habitats.	and what a plant needs for
	nom.	and give a reason for my	depending on what they look		different habilats.	survival and say what is
	I can identify the properties of a		like and explain how I have	snow my understanding.	I can explain why different	similar of different.
	range of materials and use	ided.	grouped them.	I can classify animals by	plants are suited to certain	similar of amerent.
	these to describe the material.	l can carry out an	grooped mem.	matching animals to their	habitats.	l can explain what a
	mese to describe me material.	investigation in a group.	l can explain what a habitat	correct offspring.	habiais.	'healthy diet' means.
	I can identify which material it	investigation in a group.	is.	concer onspirig.	I can explain what most	nearry der means.
	most suitable for an object and	l can record my findings	13.		plants need in order to	I can explain ways in which
	explain why (using my	and share them with my	l can explain what a micro-		survive.	we can be hygienic.
	knowledge of properties of	class.	habitat is.			
	materials).				l can give a sensible	I can explain why it is
ŧ		l can explain what a 'fair	l can classify animals into		prediction, using what I	important to exercise.
e U	I can give a prediction and a	test' is.	different habitats.		already know and give a	
slii nd	reason for my idea.				clear reason for my idea.	
Skills Development		I can explain what I have	l can explain why different			
		found out and whether	animals are suited to certain		I can carry out a class	
	I can carry out an investigation	my prediction was correct	habitats.		investigation to observe how	
	when modelled by a teacher.	or incorrect.			a plant is changing.	
			l can classify objects into			
	I can record my findings in a		living, dead and never been		I can comment on what I am	
	table with support from a		alive.		observing and what this is	
	teacher.				telling me.	
	I can say something I have					
	found out in my investigation.				I can record my findings and share them with my class.	
	loona oor in my investigation.				sindle mem with my class.	
					l can explain how we are	
					carrying out a 'fair test'.	
					, 0	
					I can clearly explain what	
					we have found out and	
					whether my prediction was	
					correct or incorrect.	
	materials: (plastic, wood, fabric,	Recap on Autumn 1 as	classify, group, sort, habitat,	Recap on Spring 1 as	Recap on Spring as	Recap on Spring and
	rock, metal, stone	necessary, plus:	micro-habitat, suited, certain,	necessary, plus:	necessary, plus:	Summer 1 as necessary, plus:
			living, dead, non-living, alive.			
	properties: (hard/soft;	fair test, explain.		food chain, consumer,		humans, diet, healthy,
	stretchy/stiff; shiny/dull;		animal classification:		suited, survive/survival,	exercise, hygiene, hygienic,
	rough/smooth; bendy/not		- herbivore, omnivore,		investigate, record, findings,	compare, similarities,
ia da	bendy; waterproof/not		carnivore	habitat, offspring.		differences
ΰ >	waterproof; absorbent/not		- reptile, amphibian,		observe, identify, prediction,	
	absorbent; opaque/transparent,		mammal, bird, fish.		reason	
	solid, water resistant, durable, comfortable, rigid/flexible).					
	suitable, suited, purposes,					
	predict, investigate, record,					
	findings, observe					
				1		

	Identifying materials suited to different objects inside school and outside in school grounds. Changing materials investigation.	'Did you know' fact page about the investigation.	Identifying animal habitats in school grounds. Using Geography knowledge of different areas of the world – match animal to different habitats. PowerPoint (linked to computing) to show animals suited to different habitats. Identify living, non-living, dead in school grounds.	Ribbon food chain. Offspring matching.	Identifying plant habitats in school grounds. Using Geography knowledge of different areas of the world – match plant to different habitats.	'Healthy Me' poster
Assessing Impact	Booklet to show suitability of materials.	Investigation on waterproof materials – write up/floor book Investigation. True or false quiz on Charles Macintosh.	Written piece on different habitats – explanation as to why animals are suited (Non-fiction book – link to English) Animals and habitats quiz. Sort images/words into living, dead and never been alive.	To create a food chain using images. Children to verbally explain what is happening in their food chain and what the different parts are called. Match animal to offspring.	Floor book – growth of a seed investigation. Individual discussion with children.	Poster – importance of healthy lifestyle.