

Science progression of skills



We aspire for all at Parsonage Farm to feel valued and cared for, to have a continued excitement for learning, ensuring success as they journey onwards.



	Plants	Materials	Animals, including humans	Seasons	Living things	How things work
Nursery	Plant seeds and care for growing plants.	Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about the differences between materials and changes they notice.	Begin to understand the need to respect and care for the natural environment and all living things.	Talk about what they see, using a wide vocabulary.	Begin to understand the need to respect and care for the natural environment and all living things.	Explore how things work Explore and talk about the different forces they can feel.
Year R	Through real-life experiences, explore the different things plants need to grow.	Begin to explain how things are similar or different to each other using newly learnt scientific vocabulary.	Simply describe similarities and differences between animal groups and humans.	Describe what they see, hear and feel whilst outside. Understand the effect of changing seasons on the natural world around them.	Explore the natural world around them. Show care for the natural world when out and about. Recognise some environments that are different to the one in which they live.	Understand some basic changing states of matter e.g. through cooking.
Year 1	Identify a variety of common plants, including garden plants, wild plants and trees,	Distinguish between an object and the material from which it is made.	Identify a variety of common animals including fish, amphibians, reptiles, birds and mammals.	Observe changes across the four seasons Observe and describe weather associated with		



	and those classified as	Identify a variety of		the seasons and how		
	deciduous and evergreen	everyday materials,	Identify a variety of	day length varies.		
	_	including wood, plastic,	common animals that			
	Identify the basic	glass, metal, water and	are carnivores,			
	structure of a variety of	rock.	herbivores and			
	common flowering		omnivores.			
	plants, including roots,	Describe the simple				
	stem/trunk, leaves and	physical properties of	Describe and compare			
	flowers.	everyday materials.	the structure of a			
			variety of common			
		Compare and group	animals (fish,			
		together a variety of	amphibians, reptiles,			
		everyday materials on	birds, mammals,			
		the basis of their simple	including pets).			
		physical properties.				
			Identify, draw and label			
			the basic parts of the			
			human body and say			
			which part of the body			
			is associated with each			
			sense.			
	Observe and describe	Identify and compare	Notice that animals,		Explore and compare the	
	how seeds and bulbs	the suitability of a	including humans, have		differences between	
	grow into mature	variety of everyday	offspring which grow		things that are living,	
	plants.	materials, including	into adults.		dead, and things that	
		wood, metal,			have never been alive.	
	Find out and describe	plastic, glass, brick,	Find out about and		T 1	
	how plants need water,	rock, paper and	describe the basic needs		Identify that most living	
	light and a suitable	cardboard for particular	of animals, including		things live in habitats to	
Year 2	temperature to grow	uses.	humans, for survival		which they are suited	
	ana stay nealthy.		(water, food and air).		and describe now	
		Find out now the shapes	Describe the immediate		different habitats	
		of solid objects made	Describe the importance		provide for the basic	
		jrom some materials can	for numans of exercise,		needs of different kinds	
		be changed by	euting the right		of unimals and plants,	
		squasning, benaing,	tunes of food and		and now they depend on	
		iwisting and stretching.	types of jood, and			
			nyytene.		Identifu a varietu of	
					plants and animals in	
					plants and antimals in	

		their habitats, including
		micro-habitats.
		Describe how animals
		obtain their food from
		plants and other
		animals, using the idea
		of a simple food chain,
		and identify and name
		different sources of food.

KS1 Working Scientifically:
 Asking simple questions and recognising that they can be answered in different ways
 Observing closely, using simple equipment
 Performing simple tests
 Identifying and classifying
 Using their observations and ideas to suggest answers to questions
 Gathering and recording data to help in answering questions.

	Questioning	Testing	Observing	Gathering and Recording Data	Identifying and Classifying	Suggesting answers to question
Nursery	Adult support modelling questions such as 'I wonder if'.	Adult supporting of simple tests that show concept of change.	Explore materials with different properties. Explore natural materials, indoors and outdoors. Explore and respond to natural phenomena.	Explore what children notice through hands on experiences and discuss their findings with support from an adult.	Notice differences between materials, plants and animals.	To talk about the differences and changes that they notice.
Year R	To explore the natural world around them and ask questions.	To experience different ways of finding out To make a suggestion about what to do. To experiment with appropriate apparatus. Carry out a chosen task. To make a simple statement referring to something they have already encountered.	Describe what they see, hear and feel whilst outside.	To observe changes in things around them. To know that information can be gathered from books and the internet.	To identify what is the same and what is different. To describe or show what they did and what happened.	To talk about what happened. To listen to the teacher using scientific vocabulary.
Year 1	To explore the world around them and ask questions using sentence stems such as how and why with support.	To begin to recognise questions can be answered in different ways. To make suggestions about what to do and what to look for. Carry out simple tests supported/scaffolded by adults.	With help, to observe closely using simple equipment. To observe changes over time with adult modelling.	To talk about results in everyday terms (e.g. this one is bigger). With support, to use simple equipment to gather data. With support, to answer questions by using secondary sources of information.	To make simple comparisons and groupings that relate to differences and similarities between objects, materials and living things. To draw or simply state what happened. To begin to group and classify.	To say what their observations show. Draw simple conclusions and explain what they did. To begin to use simple scientific vocabulary with prompting from the teacher.

		To predict what might		To record results		
		happen.		through drawing and or		
				a simple table prepared		
				bu the teacher.		
				To draw on a pictogram		
				or other chart prepared		
				by the teacher and		
				create class bar charts.		
	To explore the world	To respond to	To observe closely using	To measure using	To use simple features	To use their
	around them and raise	suggestions about how	simple equipment	standard units	to compare objects	observations and ideas
	their own questions	to find out and	ompro oquipmonti		materials and living	to suggest answers to
	using scientific	communicate this to	Observe changes over	To learn how to use	things and decide how	questions
		others	time	simple equipment (e.g.	to sort and aroun them	questions.
	lunguuge.	others.	time.	hand lenses eag timer)	to soft and group them.	Talk about what they
		To recognise the		to gather data	To compare results look	have found out and
		different wave in which		to gather aata.	for similarities and	have journe out and
		they might answer		To use secondary	differences	
				To use secondury	aljjerences.	T
× 2		scientific questions.		sources of information		To use scientific
Year 2				to answer questions.	With guidance, begin to	vocabulary competently
		To plan simply what to			notice patterns and	and appropriately.
		do, what observations		To present results in a	relationships.	
		or measurements to		simple table with		
		take.		headings initially	To group and classify in	
				provided by the teacher.	different ways	
		Recognise some				
		hazards.		To use pictograms to		
				display results, draw		
		To sometimes predict		bar charts with help.		
		the outcome of an				
		investigation.				