

Knowledge	Use all their senses in hands-on exploration of natural materials.
	 Explore collections of materials with similar and/or different properties.
	Plant seeds and care for growing plants.
	Understand the key features of the life cycle of a plant and an animal.
	Begin to understand the need to respect and care for the natural environment and all living things
	 Evolore and talk about different forces they can feel
	 Talk about the difference between materials and changes they notice
Working	Beginning to understand 'why' and 'how' questions.
Scientifically	 Beginning to use more complex sentences to link thoughts using 'and' and because.
	Questions why things happen and give explanations. Asks who, what, when, how.
	Builds up vocabulary that reflects the breadth of their experiences.
	Children to start to classify
	Use secondary resources
Knowledge	Explore the natural world around them
	 Describe what they see, hear and feel whilst outside
	 Recognise some environments that are different to the one in which they live.
	 Understand the effect of changing seasons on the natural world around them.
Working	Links statements and sticks to a main theme or intention
Scientifically	Uses talk to clarify thinking.
	 They answer 'how' and 'why' questions about their experiences and in response to events.
	They develop their own explanations by connecting ideas or events.
	They can talk about the features of my own immediate environment and how environments might vary from on another.
	Use secondary resources.
	Start to pattern seek.
	Knowledge Working Scientifically Knowledge Working Scientifically

Year 1					
		Autumn	Spring	Summer	Throughout the year
Curriculum		Animala and Living things	Even dev meteriole	Dianto	Saaaaaa
Theme		Animais and Living things	Every day materials	Plants	Seasons
Knowledge	•	identify and name a selection of	 name some common materials 	name some plants that live	 observe changes across the
(NC)		animals	name some common objects	in the wild	four seasons
	•	identify and sort animals into	around the school and home	name some trees in the	 Identify what to observe
		different groups	 distinguish between an object and the metorial from which it is 	local environment	 use descriptive words, photos and pictures to record obspace
	•	name the different groups of	and the material from which it is	recognise that different	pictures to record changes
	•	identify and name a variety of	 name materials which have lots of 	• use simple identification	 Collect evidence of changes (e.g. leaves seeds flowers)
		common animals including fish	different uses (e.g. paper-	quides to name plants in the local	 name the four seasons
		amphibians, reptiles, birds and	wrapping paper tissue paper	environment	 recall simple changes associated
		mammals	writing paper, birthday card)	identify and name a variety	with each season
	•	make observations of animals	 identify some naturally occurring 	of common wild and garden plants,	 observe and name types of
	•	know that animals eat different	materials: wood, rock, water	including deciduous and evergreen	weather (e.g. rain, sun, wind,
		types of food	 identify some man-made 	trees	clouds)
	•	identify the food of some common	materials: glass, metal, plastic	make observations of plants,	 observe and describe weather
		animals	 identify and name a variety of 	including flowers and vegetables	associated with the seasons
	•	recall and use the words: carnivore,	everyday materials, including	they have planted	and how day length varies
		herbivore and omnivore	wood, plastic, glass, metal,	 identify the leaf, root, stem 	 identify what to measure about the
	•	identify and name a variety of	water, and rock	and flower of a plant	weather
		common animals that are	 describe objects that are made 	identify the trunk, branch,	 use prepared tables and charts to
		carnivores, herbivores and	from lots of different materials	roots and leaves of a tree	record data
		omnivores	names objects that are sometimes	know that plants produce	use secondary data to describe
	•	group animals that belong to:	made from different materials (e.g.	Seeds	weather in another setting
		carnivores, nerbivores and	spoons- plastic, wooden, metal)	Identity differences between	
	•	use their elservations to point out	Inake observations of common objects and the different materials	piants	•
	•	differences between humans and	they are made of	basic structure of a variety of	•
		other animals and between animals	communicate these observations	common flowering plants including	
		and non-living things	using descriptive words (e.g.	trees	
	•	describe and compare the	bendy, rough, hard)	name some common plants	
		structure of a variety of common	 identify some properties of 	name some plants that live	
		animals (fish, amphibians,	materials (e.g. see through,	in the garden	
		reptiles, birds and mammals,	waterproof, absorbent)	name some plants that live	
		including pets)	 describe the simple physical 	in the wild	
	•	identify and locate the sense	properties of a variety of	name some trees in the	
		organs	everyday materials	local environment	
	•	use senses to describe textures,	 make predictions about which 	recognise that different	
		sounds and smells	materials will float and sink	plants live in the local environment	



	 compare differences in texture, sounds and smells name and locate the basic parts of the human body draw and label a simple body outline. 	 compare and group together a variety of everyday materials on the basis of their simple physical properties (both visible and non-visible) 	 use simple identification guides to name plants in the local environment identify and name a variety of common wild and garden plants, including deciduous and evergreen trees 	
Working Scientifically	 Ask simple questions and recognise that they can be answered in different ways Use simple equipment to observe closely. Identify and classify. Use his/her observations and ideas to suggest answers to questions. 	 Ask simple questions and recognise that they can be answered in different ways. Identify and classify. Use his/her observations and ideas to suggest 	 Ask simple questions and recognise that they can be answered in different ways. Use simple equipment to observe closely. Perform simple tests. Identify and classify. Use his/her observations and ideas to suggest answers to questions. Gather and record data to help in answering questions. 	 Ask simple questions and recognise that they can be answered in different ways. Use simple equipment to observe closely. Perform simple tests. Identify and classify. Use his/her observations and ideas to suggest answers to questions. Gather and record data to help in answering questions.



Year 2				
	Autumn	Spring 1	Spring 2 Summer 1	Summer 2
Curriculum	Habitats	Every day materials	Growing Plants	Animals including humans.
Curriculum Theme Knowledge (NC)	Autumn Habitats • with help, use keys to identify some animals and plants • recognise that different plants live in the local environment • identify some local habitats • describe the simple features of habitats • recognise a microhabitat as a small habitat (e.g. leaf litter, woodlice under stones) • describe some microhabitats • identify and name a variety of plants and animals in their habitats • recognise similarities and differences between plants and animals	 Spring 1 Every day materials identify uses of some common materials give a reason why a material is suitable for its job recognise that some materials will have more than one property which increases its suitability for its purpose (e.g. glass is transparent, rigid and weatherproof) identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. suggest several reasons why a 	 Spring 2 Summer 1 Growing Plants know that flowering plants produce seeds which grow into new plants know that some plants have bulbs from which they grow make observations of plants over time explore how plants from seeds and bulbs grow describe what happens to bulbs during the plant cycle as they grow describe what happens to a seed as it grows and develops describe what they observe as new plants grow observe and describe how seeds and bulbs grow into 	Summer 2 Animals including humans. • recognise that animals produce young • notice that animals, including humans, have offspring which grow into adults • recognise changes that take place as animals get older • explain that adult animals no longer grow • describe some differences they observe between babies and toddler • make comparisons of the differences they observe between babies and toddlers • identify the offspring of a selection of different animals
	 recognise similarities and differences between plants and animals explore and compare the differences between things that are living, dead, and things that have never been alive explain differences between living and non-living things in terms of 	 suggest several reasons why a material may or may not be suitable for a particular purpose identify materials that can be easily changed with force identify materials that cannot be easily changed with force describe puspes and pulls 	 observe and describe how seeds and bulbs grow into mature plants compare the plant cycle for a plant from a seed with that from a bulb suggest how to find out about what plants need in order to 	 Identify the onspring of a selection of different animals find out about and describe the basic needs of animals, including humans, for survival (water, food and air) explain how to look after a pet describing what it needs to survive describe the importance for
	 characteristics such as movement and growth use their observations to point out differences between animals, 	 needed to change a material as big or small find out how the shapes of solid objects made from some 	 grow well recognise that plants are living and need water, light and warmth to grow 	 humans of exercise, eating the right amounts of different types of food, and hygiene recognise that exercise is important
	 plants and non-living things recognise that plants provide food for humans and other animals within an environment 	materials can be changed by squashing, bending, twisting and stretching	 describe differences between plants grown in the light and in the dark find out and describe how 	 name some types of food identify some types of food that make up their diet and name some examples of each
	 construct a simple food chain (e.g. grass, cow, human) describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and 		plants need water, light and a suitable temperature to grow and stay healthy	 recognise that an adequate diet and exercise are necessary for them to grow and stay healthy describe some of the types of food that they eat

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	 identify and name different sources of food name a few of the organisms that live in a particular habitat suggest reasons why different plants and animals are found in the different environments identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other. 			
Working Scientifically	 Ask simple questions and recognise that they can be answered in different ways including use of scientific language from the national curriculum. Use his/her observations and ideas to suggest answers to questions noticing similarities, differences and patterns 	 Ask simple questions and recognise that they can be answered in different ways including use of scientific language from the national curriculum. Use simple equipment to observe closely including changes over time. Perform simple comparative tests. Identify, group and classify. Gather and record data to help in answering questions including from secondary sources of information. 	 Ask simple questions and recognise that they can be answered in different ways including use of scientific language from the national curriculum. Use simple equipment to observe closely including changes over time. Perform simple comparative tests. Identify, group and classify. Use his/her observations and ideas to suggest answers to questions noticing similarities, differences and patterns. Gather and record data to help in answering questions including from secondary sources of information. 	 Ask simple questions and recognise that they can be answered in different ways including use of scientific language from the national curriculum. Use simple equipment to observe closely including changes over time. Perform simple comparative tests. Identify, group and classify. Use his/her observations and ideas to suggest answers to questions noticing similarities, differences and patterns. Gather and record data to help in answering questions including from secondary sources of information.