

Science Progression of Knowledge at Speen School

	Working Scientifically	Plants	Animals Including Humans	Living Things and Their Habitats	Everyday Materials	Seasonal Changes
Little Apples	 Asking questions and observing helps make sense of the world around them. Information gathered through observation can be displayed in different ways including pictures and words (written, verbal and signed). Objects and living things can be looked at and compared. Know and follow safety rules related to Forest Schools investigations. 	 Plants need water to survive. Plants need to be cared for to ensure they survive. 	 To keep healthy, humans should eat a range of healthy food stuffs such as fruit, vegetables and not too many sugary foods. Animals and people have eyes, ears, nose, head, legs. Plants have petals, a stem and roots. Animals and humans are living things. Live young have different names Live young examples to be covered: Humans - babies, Whale - calf, Pig - piglet, Horse – foal, Elephant - calf, Common pet examples (dog - puppies, cat – kittens, rabbit – kit, guinea pig – pup) 	 Animals can live in homes as pets and also in the wild. Minibeasts need lots of different environments. 	 Materials have different textures. Some are soft and smooth. Others are hard and bumpy. Things can grow and change over time. Models can be created using lots of different materials and tools. 	 In autumn leaves fall from the trees, In winter it's colder, In summer it's warmer and flowers may grow in spring. Types of weather include sun, rain, wind and snow.

Reception Asking relevant Plants are living The basic body parts Animals can live in Materials change At night it is dark 				 There are many different types of insects in the school grounds. Humans and plants need water to survive. Plants and humans need to be cared for to ensure they survive. To know that exercise, eating, sleeping and good hygiene (such as washing hands) keeps us healthy. It is important to stay safe. Some ways to stay safe include staying safe in the Sun (sun cream, sun hat and sunglasses), crossing roads (stop, look and listen), in the kitchen (not touching hot or sharp objects). 			
observing helps change as they legs, nose, eyes, ears, livestock in farms heating and cooling. light. In winter it	Reception	questions and observing helps make sense of the	things that change as they grow and mature.	• The basic body parts are the head, arms, legs, nose, eyes, ears, mouth, hands and	homes as pets, be livestock in farms and also in the wild.	when cooking.heating and cooling.Things can grow,	in the day it is light. In winter it is colder, in summer

 Information gathered through observation can be displayed in different ways including pictures and words (written, verbal and signed). Question words include what, why, how, when, who and which. Objects, materials and living things can be looked at and compared. Know and follow safety rules related to Forest Schools investigations. 	 Some plants can be eaten and some are dangerous for us. 	 used to see, the nose is used to smell, the tongue is used to taste and skin gives the sense of touch. Humans can eat plants and meat. It is important to stay safe. Some ways to stay safe include staying safe in the Sun (sun cream, sun hat and sunglasses), crossing roads (stop, look and listen), in the kitchen (not touching hot or sharp objects) and with household reagents (not touching, drinking or eating). The importance of eating a balanced diet and how much exercise a person needs. Animals need to eat different types of food to survive. Some animals are 	names. Pigs live in a sty, horses in a stable, rabbits in a burrow, foxes in a den. • The wild animals around Speen school have many different homes.	 Some materials float or sink. Choose the resources they need for their chosen activities. 	 Each season has typical weather patterns. Types of weather include sun, rain, wind, snow, fog, hail and sleet.
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Year 1	The results are	 Know and name a 	 These are nocturnal animals. Human beings have a responsibility to care for the animals on the planet. Animals are living 	The local	 Materials can be 	Different types of
	 information that has been found out from an investigation. Data can be recorded and displayed in different ways, including tables, pictograms and drawings. Question words include what, why, how, when, who and which. Simple tests can be carried out by following a set of instructions. Objects, materials and living things can be looked at, compared and grouped according to their features. 	 variety of common wild and garden plants. Know the parts of a plant and name them: petals, stem, leaves and root of a plant. Know the parts of a tree and name them: the roots, trunk, branches and leaves of a tree. Some plants can be eaten and some are dangerous for us. We know where the plants are and what their names are. 	 things. Animals can be sorted and grouped into six main groups: fish, amphibians, reptiles, birds, mammals and invertebrates. Carnivores eat other animals (meat), herbivores eat plants and omnivores eat other animals and plants. Different animal groups have some common body parts, such as eyes and a mouth, and some different body parts, such as fins or wings. Living things need to be cared for in order for them to survive. They need water, food, warmth and shelter. 	 environment is a habitat for living things and can change during the seasons. Living things need to be cared for in order for them to survive. They need water, food, warmth and shelter. When animals hibernate, they need shelter and to be safe. 	 grouped according to their properties. A material is what an object is made from. Everyday materials include wood, plastic, glass, metal, water, rock, brick, paper and fabric. Materials have different properties, such as hard or soft; stretchy or stiff; rough or smooth; opaque or transparent; bendy or rigid; waterproof or not waterproof; magnetic or non- magnetic. 	 weather include sun, rain, hail, wind, snow, fog, lightning, storm and cloud. The weather can change daily and some weather types are more common in certain seasons, such as snow in winter. Simple equipment can be used for measuring weather, such as measuring temperature with a thermometer; identifying wind direction and force with a wind sock or measuring rainfall with a gauge.

	 Know and follow safety rules related to Forest Schools investigations. 					 Observe and describe how day length changes across the year. Day length (the number of daylight hours) is longer in the summer months and shorter in the winter months
Year 2	 The results are information that has been found out from an investigation and can be used to answer a question. Data can be recorded and displayed in different ways, including tables, charts, pictograms and drawings. Questions can help us find out about the world. Simple equipment is used to take measurements and observations. 	 Plants grow from seeds and bulbs. Seeds and bulbs need nutrients from soil, water and warmth to start growing (germinate). As the plant grows bigger, it develops leaves and flowers. Some plants can be eaten and some are dangerous for us. We know where the plants are and what their names are. Some plants like bluebells cannot 	 Living things are those that are alive. Dead things are those that were once living but are no longer. Some things have never been alive. Animals need water, food, air and shelter to survive. Their habitat must provide all these things. A healthy lifestyle includes exercise, good hygiene and a balanced diet. Humans need water, food, air and shelter to survive. 	 Local habitats include parks, woodland and gardens. Habitats beyond the locality include beaches, rainforests, deserts, oceans and mountains. All living things live in a habitat to which they are suited and it must provide everything they need to survive. A habitat is a place where a living thing lives. A microhabitat is a very small habitat. Animals need water, food, air and shelter 	 A material's physical properties make it suitable for particular purposes, such as glass for windows and brick for building walls. Many materials are used for more than one purpose, such as metal for cutlery and cars. Some objects float and others sink. Objects that float are typically light or hollow. 	

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mi	ight happen in			
an	n investigation.			
• Ot	bjects, materials			
an	nd living things			
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to	their features.			
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	lated to Forest			
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