

Science Progression of Knowledge at Speen School

	Working	Plants	Animals Including	Living Things and	Everyday Materials	Seasonal
	Scientifically		Humans	Their Habitats		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 	 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 	 Animals can live in homes as pets and also in the wild. Minibeasts need lots of different environments. Bug hotels give minibeasts the shelter they need. 	 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. Some of these materials have had different uses. These materials are recycled. 	 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.

Schools	examples (dog -
investigations.	puppies, cat – kittens,
	rabbit – kit, guinea
	pig – pup)
	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).

Reception	 Asking relevant 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). 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. 	U U	at s they d mature. eed water e. ants can and	The basic body parts are the head, arms, legs, nose, eyes, ears, mouth, hands and feet. Ears are used for hearing, eyes are 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 can live in homes as pets, be livestock in farms and also in the wild. Animals homes have different 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. Leaf litter should not be cleared as it is shelter for creatures like hedgehogs and butterflies. 	 Materials change when cooking. heating and cooling. Things can grow, decay and change over time. Some materials float or sink. Choose the resources they need for their chosen activities. 	 At night it is dark, in the day it is light. In winter it is colder, in summer it is warmer. Each season has typical weather patterns. Types of weather include sun, rain, wind, snow, fog, hail and sleet. There are four different forms of light pollution that vary over the seasons.
-----------	--	-----	---	---	---	---	---

Key Stage	1		 Animals need to eat different types of food to survive. Some animals are awake at night and sleep during the day. These are nocturnal animals. Human beings have a responsibility to care for the animals on the planet. Light pollution effects nocturnal animals and birds when they migrate. 		
Cycle A	 Cycle A and B The results are information that has been found out from an investigation. Data can be recorded and displayed in different ways, including tables, pictograms and drawings. 	 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. Many predators eat plants. Pesticides are 	 Animals are living 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. 	 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. Living things depend upon each other to survive. Materials can be 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 can be 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 	 Different types of 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

	 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. Know and follow safety rules related to Forest Schools investigations. 	used to deter them. Some pesticides are harmful to the environment.	such as ey mouth, ar different t such as fir Living thir	ve some body parts, res and a ad some body parts, ns or wings. ags need to for in order to survive. d water,	•	transparent; bendy or rigid; waterproof or not waterproof; magnetic or non- magnetic. Some materials are natural and some are manmade.	 measuring weather, such as measuring temperature with a thermometer; identifying wind direction and force with a wind sock or measuring rainfall with a gauge. 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
Cycle B		 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. 	that were but are no Some thir never bee • Animals n	t are alive.environment is a habitat for living things and can change during the seasons.o longer.change during the seasons.n alive.Local habitats include parks, woodland and		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 plants c be eaten and some are dangerous for We know whe the plants are and what thei names are. Know and nan variety of common wild garden plants. Some plants li bluebells cann be picked as it against the law 	 all these things. Humans have offspring that grow into adults (baby, toddler, child, teenager, adult) A healthy lifestyle includes exercise, good hygiene and a balanced diet. Humans have 5 senses which send messages to our brain so we know about rainforests, de oceans and mountains. A things live in a habitat to wh they are suite it must provid everything th need to surving where a living lives. A micro is a very smal habitat. 	and others sink. Objects that float are typically light or hollow. Some materials can be recycled so they are used for different purposes. Pace thing habitat pabitat are sare water, shelter eir
--	--	---