

Cheadle Primary – the school at the heart of the village, free to flourish, ready to learn and succeed. **Progression of Skills and Knowledge: SCIENCE Year 1**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	OURSELVES	JULIA DONALDSON -	PETS	HOUSES AND HOMES (CHEADLE)	HOW DOES YOUR GARDEN GROW	SEASIDE
TOPICS	<i>Human Body and the Senses</i>	<i>Seasonal Changes</i>	<i>Animals</i>	<i>Everyday Materials</i>	<i>Plants</i>	<i>Animals</i>
SCIENTIFIC ENQUIRY/ & QUESTIONING	Ask simple questions and recognise that they can be answered in different ways eg How can you group these children? Have we all got blue eyes? How is our skin/hair different? What is the same about us all?	Ask simple questions about what the weather is like? What season are we in?	What are animals like? What do they look like? How do we care for them?	Explore, name, discuss and raise and answer questions about everyday materials so that they become familiar with the names of materials and properties such as: hard/soft; stretchy /stiff; shiny/dull; rough/smooth; bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent ;opaque/transparent.	Ask questions about common wild and garden plants, including deciduous and evergreen trees. Nasturtiums, tomatoes, sunflowers	Ask and answer questions about a variety of common animals including fish, amphibians, reptiles, birds and mammals. To know that these questions can be answered in different ways. Ask and answer questions about what these animals eat.
OBSERVING	Observe closely the similarities and differences between humans. Have we all got blue eyes? How is our skin/hair different? What is the same about us all? Mai Jamieson Super Senses lesson	Observe changes in seasons and describe different types of weather. Observe and describe how day length varies between two seasons. Measuring The Weather/Wrapping Up Warm lesson	Observe a variety of pets (note similarities and differences)	Observe closely to distinguish between an object and the material from which it is made by naming objects and identifying the material which they are made from. Observe and describe the simple physical properties of a variety of everyday materials. Lego lesson	Observe the growth of plants. Observe different common wild and garden plants, including deciduous and evergreen trees. Sensory Garden lesson	Observe a variety of common animals including fish, amphibians, reptiles, birds and mammals using videos and photographs. Zoo lesson
IDENTIFYING & CLASSIFYING	Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. Pupils should have plenty of opportunities to learn the names of the main body parts through games, actions, songs and rhymes.	Identify the characteristics of each types of weather and the seasons.	Identify different types of pets Classify different groups	Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock Compare and group together a variety of everyday materials on the basis of their simple physical properties. To sort objects by their properties.	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants, including trees. Become familiar with terminology such as leaves, flowers (blossom), petals, fruit, roots, seed, trunk, branches, stem.	Identify and name common animals including fish, amphibians, reptiles, birds and mammals using videos and photographs. Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Sort and group animals according to their classification. Sort and group animals according to what they eat.
TESTING & FINDINGS	Use simple equipment to perform simple tests when using their senses to compare different textures, sounds, tastes and smells in a variety of experiments. Gathering data and recording results to these experiments.	To gather and record data about weather in autumn and winter. To explore how some animals adapt to survive in winter.	To gather and record data about our pets	To describe the simple properties of a variety of everyday materials by testing different properties.	Draw diagrams showing the parts of different parts of trees and plants. Record how plants have changed over time, for example the leaves falling off trees and buds opening; compare and contrast what they have found out about different plants.	
Key Questions	Can you name these body parts? Can you identify the 5 senses?	Can you talk about the way the weather changes? Can you explain seasonal changes across the seasons? How many seasons are there?	Can you talk about different pets? How do they look different? What do they eat? How do we look after them?	Can you name everyday materials? Can you discuss their properties?	Can you name some of the plants and trees in our environment? Can you describe how they change throughout the year?	What are the characteristics of an amphibian, reptile, mammal, bird & fish? Can you give examples of each? What are the characteristics of the above? What is a carnivore, herbivore & omnivore? Can you give examples of each?
Key Learning Intentions	To name key body parts. To name the 5 senses.	To know there are four seasons. To describe the weather associated with each season.	To know that there are different animals which make pets	To name a variety of materials and talk about their properties.	To name some of the plants and trees in our environment. To observe and describe how they change.	To know what an amphibian, fish, reptile, bird and mammal is. To know what a carnivore, herbivore and omnivore is.
Key Knowledge	To know that key body parts perform a different function. To know why the 5 senses are important for human beings.	To know there are four seasons. To describe the weather associated with each season.	To know facts about our different pets	To know that objects are made from materials according to their suitability.	To know that there are a wide variety of trees and plants. To know that they change throughout the year.	To know that there are different types of animals and that they eat different foods. To know that there are different types of animals and that they eat different foods.
Key Vocab	names of body parts, including head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth, teeth, names of senses.	Words associated with weather/seasons	Words associated with pets, mammals, fish, reptiles and birds	hard/soft stretchy/stiff; shiny/dull; rough/smooth; bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent; opaque/transparent.	blossom, petals, fruit, roots,, trunk, branches, stem	amphibian, fish, omnivore, herbivore and carnivore. bird, reptile, mammal.
Key Challenge	Use their observations & ideas to suggest answers to questions eg has the tallest person got the biggest feet/hands etc?	To make comparisons across the seasons.	'to sort pets according to own criteria	Which material is the best for an umbrella? Which is the best/ strongest material to build a house.. ...for lining a dog basket? ...for curtains? ...for a bookshelf? ...for a gymnast's leotard?...to build a house?	Can you identify the tree from the shape of the leaf? Can you name spring flowers?	Can you sort the animals into a venn diagram according to what they eat? Can you sort animals according to your own criteria?
Yr 1 Support	word mat for body parts.	Songs/Poetry about the weather/seasons	Language support/photos/videos	word mat for properties	Photographs	Language support Photographs Videos Language support Photographs Videos
Visit or Visitor	Guide dog for the blind(history)				Visit to Park	Chester Zoo
Key text	Songs- Heads, shoulders. Poetry book about the senses- Oxford Reading Tree.	Songs/Poetry about the weather	Non-fiction texts about animals Fiction-animal stories	Three Little Pigs The house that Jack Built The Wise Man built his house upon the Rock.	Plant the tiny Seed Christie Matheson Youtube The Tiny Seed Eric Carle	Non-fiction texts about animals. Any animal stories - fiction Commotion in the Ocean Non-fiction texts about animals. Any animal stories - fiction
Resources	Feely bag Food for tasting Dinnertime for smells, Ears Eyes	Weather diaries Videos Walks photographs	Videos, photos	collection of objects/materials feely bag blindfold	seeds(variety), pots, compost, use garden planters	photographs, videos photographs, videos and RUBY