

Science Long Term Plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	<p><u>Animals</u> Know the names of some animals</p> <p><u>Plants</u> Know the names of some plants</p> <p><u>Humans (My Body)</u> Know the names for body parts</p>	<p><u>Changing states of matter</u> Know when water is ice Know that ice will melt Know that water will freeze when cold</p>	<p><u>Materials</u> Know the use and purpose of some objects Know how to use objects appropriately</p> <p><u>Forces</u> Know water pushes up when I push an object into it Know stretch, bend, snap</p>	<p><u>Animals</u> Know the names of mini-beasts Know the names of physical features</p> <p><u>Plants</u> Know the parts of a flower Know how to plant a seed Know how to look after a plant</p>	<p><u>Animals</u> Know the names of farm animals Know physical features</p> <p><u>Life Cycles</u> Know that animals and humans change over time (stages) Know that I was a baby Know that I will grow into an adult Know that chicks start as an egg</p>	<p><u>Materials</u> Know the names of materials Know the names of some properties</p> <p><u>Forces</u> Know how to use a magnet Know when an object is attracted/repelled to/by a magnet</p> <p><u>Changing states of matter</u> Know what a solid/liquid/gas look and feel like Know that materials can change</p>
	Identifying	Observing Comparing	Identifying Observing	Identifying, grouping Observing Comparing	Identifying, grouping Observing	Identifying, grouping Observing
Reception	<p><u>Humans (My Body)</u> Know the name of body parts Know I have changed since I was a baby</p> <p><u>Floating and Sinking</u> Know what floating and sinking is</p>	<p><u>Day and Night</u> Know that the sun is out in daytime and the moon is out at night time</p> <p><u>Nocturnal Animals</u> Know what nocturnal is Know the names of some nocturnal animals</p> <p><u>Light and Sound</u> Name 3 sources of light Name 3 sources of sound</p>	<p><u>Floating and Sinking</u> Know why some object float and some sink</p> <p><u>Materials</u> Know the names of different materials Know the names of different properties</p>	<p><u>Minibeasts</u> Know the names of different minibeasts Know physical features</p> <p><u>Plants</u> Know the parts of a flower Know what plants needs to grow Know the stages of a plant life cycle</p>	<p><u>Animals around the world</u> Know the names of different animals from different environments Know physical features</p> <p><u>Lifecycles</u> Know the stages of the butterfly life cycle</p>	<p><u>Changing states of matter</u> Know when water freezes it turns to ice Know when ice melts it comes water Know solids and liquids</p>
	Identifying, grouping	Identifying, grouping	Observing	Observing over time	Observing Comparing	Observing
Year 1	<p><u>Animals including Humans</u> Know what carnivore and herbivore mean Group and classify dinosaurs</p> <p><u>Senses</u> Know basic parts of human body Know the 5 senses and associated body part</p>	<p><u>Materials</u> Know and identify everyday objects Know common materials Know the difference between object and material Know properties for materials</p>	<p><u>Animals including Humans</u> Know the main structural characteristics of common animals Know differences and similarities between common animals</p>	<p><u>Plants</u> Begin to identify and name garden/wild plants in the local environment Know deciduous and evergreen Know changes that occur in an Oak tree throughout the seasons Know different parts of a flower/tree</p>	<p><u>Materials</u> Know properties of materials Gather and record information</p>	<p><u>Animals including Humans</u> Know the main structural characteristics of common animals Identify a variety of common animal groups Know different animals body parts Know warm/cold blooded</p>

	Seasonal Changes – Autumn Plants		Seasonal Changes- Winter/Spring		Seasonal Changes – Spring/Summer Plants	
	Identifying, grouping and classifying Comparing	Identifying, grouping and classifying Comparing	Identifying, grouping and classifying	Identifying, grouping and classifying Pattern Seeking Observing	Identifying, grouping and classifying Comparing	Identifying, grouping and classifying Comparing
Year 2	<p><u>Living things and their Habitats</u> Know 'living', 'dead' and 'never been alive' Know what a habitat is Begin to know what a micro habitat is Know some common plants found in the local area Begin to understand food chains</p> <p><u>Animals including Humans</u> Begin to know what a life-cycle is Know that animals are born and grow into an adult Name stages of an owl life-cycle</p>	<p><u>Materials</u> Know a variety of different materials Know natural and man-made materials Know some properties of common materials</p>	<p><u>Materials</u> Know that some objects can be changed – squashed, stretched etc Know how some shapes can/cant be changed and give reasons why</p> <p><u>Living things and their Habitats in the Wider World</u> Identify and group Arctic animals Know how animals adapt to their habitat to survive</p>	<p><u>Plants</u> Suggest how to care for seeds and bulbs Know what plants need to grow Begin to know about seed dispersal Know the conditions for germination Know the plant life-cycle</p>	<p><u>Living things and their Habitats</u> Know what a habitat is and identify different ones in the wider world Know what a micro-habitat is Know some animals found in the wider world Know that living things need certain things to stay alive Understand the concept of a food chain</p>	<p><u>Animals including Humans</u> Know what a life-cycle is Understand the development of babies to adults Know the capabilities at different stages of the human life-cycle Identify basic needs of humans Know what a balanced diet is Know about the importance of exercise</p>
	Identifying, grouping and classifying Comparing	Identifying, grouping and classifying Comparing	Identifying, grouping and classifying Comparing Pattern Seeking	Identifying, grouping and classifying Comparing Pattern Seeking Observation over time	Comparing Pattern Seeking Researching	Identifying, grouping and classifying Researching Pattern Seeking