

Term	Working Scientifically	Learning intentions
Autumn 1	Animals including Humans. <ul style="list-style-type: none"> Finding out about and describing the basic needs of animals, including humans, for survival (water, food and air). Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. 	
Animals including Humans.	Asking Questions <ul style="list-style-type: none"> ask simple questions and recognise that they can be answered in different ways Measuring and Recording <ul style="list-style-type: none"> observe closely, using simple equipment perform simple tests gather and record data to help in answering questions Concluding <ul style="list-style-type: none"> identify and classify use their observations and ideas to suggest answers to questions 	<ul style="list-style-type: none"> To describe the basic needs of animals. To describe how animals obtain their food. To perform a simple test to understand and test how exercise affects our heart rate. To record our results. To learn about the importance of nutrition for humans. To learn about the importance of exercise for humans. To carry out a simple test to measure the effect of different activities on heart rate. To learn about the importance of hygiene for humans.
Autumn 2	Materials <ul style="list-style-type: none"> Recapping the different kinds of everyday materials and why they are chosen for purpose. Recapping and testing the properties of different everyday materials. identify and compare the suitability of a variety of everyday materials. Finding out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching 	
Materials	Asking Questions <ul style="list-style-type: none"> ask simple questions and recognise that they can be answered in different ways Measuring and Recording <ul style="list-style-type: none"> observe closely, using simple equipment perform simple tests 	To name different everyday materials. To sort materials by their properties. To perform investigations to test the properties of different materials.

	<ul style="list-style-type: none"> gather and record data to help in answering questions <p>Concluding</p> <ul style="list-style-type: none"> identify and classify use their observations and ideas to suggest answers to questions 	<p>To suggest uses for different materials.</p> <p>To determine how the shapes of solid materials can be changed by squashing, bending, twisting and stretching.</p> <p>To find out about the scientist Charles McIntosh.</p>
<p>Spring 1</p> <p>Animals including humans</p>	<ul style="list-style-type: none"> Continuing with testing properties of materials as for Autumn 2 <p>.Animals including humans</p> <ul style="list-style-type: none"> Notice that animals, including humans, have offspring which grow into adults. 	<p>To learn the lifecycle of birth, growth, reproduction and death.</p> <p>To learn about reproduction and growth in animals.</p> <p>To learn how humans grow by looking at how babies grow into adults.</p> <p>To describe the stages of life from adulthood to old age.</p> <p>To know the lifecycle of a frog.</p> <p>To describe the lifecycle of a butterfly.</p> <p>To compare generations of families to help understand how characteristics are inherited.</p>
<p>Spring 2</p> <p>Plant</p>	<p>Plants</p> <ul style="list-style-type: none"> Observe seeds growing/what seeds need to grow. Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. 	

	<p>Measuring and Recording</p> <ul style="list-style-type: none"> • observe closely, using simple equipment • perform simple tests • gather and record data to help in answering questions <p>Concluding</p> <ul style="list-style-type: none"> • identify and classify • use their observations and ideas to suggest answers to questions 	<p>To understand what plants need to grow.</p> <p>To understand that plants need water, light and a suitable temperature to grow.</p> <p>To understand the difference between a bulb and a seed.</p> <p>To understand that plants make their own food.</p> <p>To know how plants grow from a seed to a bulb.</p> <p>To recognise the importance of flowers and seeds.</p>
<p>Summer 1</p> <p>Habitats</p>	<p>Habitats</p> <ul style="list-style-type: none"> • Explore and compare the differences between things that are living, dead, and things that have never been alive • 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. • Identify and name a variety of plants and animals in their habitats, including microhabitats. • Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food 	
	<p>Asking Questions</p> <ul style="list-style-type: none"> • ask simple questions and recognise that they can be answered in different ways <p>Measuring and Recording</p> <ul style="list-style-type: none"> • observe closely, using simple equipment • perform simple tests • gather and record data to help in answering questions <p>Concluding</p> <ul style="list-style-type: none"> • identify and classify • use their observations and ideas to suggest answers to questions 	<p>To know that living things live in an environment to which they are suited.</p> <p>To appreciate that environments are constantly changing.</p> <p>To describe life in the ocean.</p> <p>To appreciate dangers to ocean life.</p> <p>To explore the Antarctic and Arctic habitat.</p> <p>To explore the rainforest habitat and its problems</p> <p>To understand desert, underground and ocean habitats.</p>

<p>Summer 2</p> <p>Habitats</p>	<p>Habitats.</p> <ul style="list-style-type: none"> • Explore and compare the differences between things that are living, dead, and things that have never been alive • 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. • Identify and name a variety of plants and animals in their habitats, including microhabitats. • Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food
	<p>To explore the differences between things that are living, dead and things that have never been alive.</p> <p>To identify and name a variety of plants and animals in a microhabitat.</p> <p>To describe how animals obtain their food from plants</p> <p>To know about different sources of food grown by farmers.</p> <p>To understand the journey food makes from the farm to the supermarket.</p> <p>To learn about the food chain.</p>