

Science

Scientific Knowledge and Conceptual Understanding: Year 2 Expectations

Please Note: There should be plenty of opportunities throughout the year for children to use the school/local environment to observe plant growth, changes in habitats across the seasons and life cycles of a variety of different animals (for example: chicks/other birds, tadpoles/frogs, caterpillars/butterflies, other mini-beasts, other young animals during trips to farms/zoos). This could be done through an ongoing/monthly nature journal to observe, record and review over a period of time. The unit of work on 'Animal survival and growth' can be covered in the same half term as work on 'Habitats' in order to link the concept of survival.



Environment - Living things and their habitats	Animals - Animal survival and growth	Health – How we grow and stay healthy
<ul style="list-style-type: none"> ▪ <u>Explore and compare the differences between things that are living, dead, and things that have never been alive.</u> ▪ <u>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.</u> ▪ <u>Identify and name a variety of plants and animals in their habitats, including micro-habitats.</u> ▪ <u>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.</u> <ul style="list-style-type: none"> ▫ Different kinds of plants and animals live in different kinds of places. ▫ There are different kinds of habitat near school which need to be cared for ▫ Habitats provide the preferred conditions for the animals/plants that live there (compare local habitats and less familiar examples). ▫ <u>Observe living things in their habitats during different seasonal changes.</u> 	<ul style="list-style-type: none"> ▪ <u>Notice that animals have offspring which grow into adults.</u> ▪ <u>Find out about and describe the basic needs of animals for survival</u> (water, food and air). 	<ul style="list-style-type: none"> ▪ Notice that humans have offspring which grow into adults. ▪ <u>Find out about and describe the basic needs of humans for survival</u> (water, food and air). ▪ <u>Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.</u> <ul style="list-style-type: none"> ▫ Medicines can be useful when we are ill. ▫ Medicines can be harmful if not used properly.
Plants – Plant growth		Material Properties – Uses of Materials
<ul style="list-style-type: none"> ▪ <u>Observe and describe how seeds and bulbs grow into mature plants.</u> ▪ <u>Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy (and how changing these affects the plant).</u> <ul style="list-style-type: none"> ▫ Plants are living and eventually die. 		<ul style="list-style-type: none"> ▪ <u>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, water, rock, paper and cardboard for particular uses.</u> ▪ <u>Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching (applying a force).</u> <ul style="list-style-type: none"> ▫ Some materials can be found naturally; others have to be made.