

Science Skills Progression - KS1 2022-202



Children should be encouraged to be curious and ask questions about what they notice. They should be helped to develop their understanding of scientific ideas by using different types of scientific enquiry to answer their own questions, including observing changes over a period of time, noticing patterns, grouping and classifying things, carrying out simple comparative tests, and finding things out using secondary sources of information. They should begin to use simple scientific language to talk about what they have found out and communicate their ideas to a range of audiences in a variety of ways. Most of the learning about science should be done through the use of first-hand practical experiences, but there should also be some use of appropriate secondary sources, such as books, photographs and videos to help support enquiry based learning.

Year 1

Year 2

Knowledge

Biology - Plants

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.

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.

Biology - Animals including humans

Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals
Identify and name a variety of common animals that are carnivores, herbivores and omnivores
Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)

Notice that animals, including humans, have offspring which grow into adults
Find out about and describe 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.

Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.

Biology - Living things and habitats

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.

Chemistry - Everyday materials

Distinguish between an object and the material from which it is made

Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock

Describe the simple physical properties of a variety of everyday materials

Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses

Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

<p>Compare and group together a variety of everyday materials on the basis of their simple physical properties.</p>	
<p><u>Physics - Seasonal changes</u></p>	
<p>Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies</p>	
<p><u>Working Scientifically - Enquiry based learning (taught throughout each unit)</u></p>	
<p>Asking simple questions and recognising that they can be answered in different ways (enquiry) Observing closely, using simple equipment Performing simple tests Identifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions.</p>	
<p><u>Skills</u></p>	
<p><u>Plants</u></p>	
<p>Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees</p>	<p>Observe and describe how seeds and bulbs grow into mature plants</p>

<p>Identify and describe the basic structure of a variety of common flowering plants, including trees.</p>	<p>Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.</p>
<p><u>Animals including humans</u></p>	
<p>Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.</p> <p>Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)</p> <p>Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals</p> <p>Identify and name a variety of common animals that are carnivores, herbivores and omnivores</p>	<p>Notice that animals, including humans, have offspring which grow into adults</p> <p>Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.</p>
<p><u>Living things and habitats</u></p>	
	<p>Explore and compare the differences between things that are living, dead, and things that have never been alive.</p> <p>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.</p>

	<p>Identify and name a variety of plants and animals in their habitats, including micro-habitats.</p> <p>Find out about and describe the basic needs of animals, including humans, for survival (water, food and air)</p> <p>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>
<u>Everyday materials</u>	
<p>Describe the simple physical properties of a variety of everyday materials.</p> <p>Compare and group together a variety of everyday materials on the basis of their simple physical properties.</p> <p>Distinguish between an object and the material from which it is made.</p> <p>Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.</p>	<p>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses</p> <p>Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</p>
<u>Seasonal changes</u>	
<p>Observe changes across the four seasons.</p> <p>Observe and describe weather associated with the seasons and how day length varies.</p>	