



## Progression of skills - SCIENCE

Knowledge (National Curriculum)

### **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.

### **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)
- identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.
- 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

### **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
- compare and group together a variety of everyday materials based on their simple physical properties.

### **Seasonal Changes (Year 1)**

- observe changes across the four seasons
- observe and describe weather associated with the seasons and how day length varies.

### **Living things and their habitats (Year 2)**

- 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.

### **Working Scientifically**

- asking simple questions and recognising that they can be answered in different ways
- 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.



## Progression of skills - SCIENCE

	<b>EYFS</b> <b>3 &amp; 4 Year olds</b> <b>Reception</b> <b>ELG</b>	<b>Year 1</b>	<b>Year 2</b>	<b>End of key stage expectation</b>
<b>Plants</b>	<p>Can I explore the natural world around me, making observations and drawing pictures of plants?</p> <p>Can I plant seeds and care for growing plants?</p> <p>Can I understand the key features of the life cycle of a plant and an animal?</p> <p>ELG</p> <p>Can I explore the natural world around me, making observations and drawing pictures of plants?</p>	<p>Can I identify and name a variety of common wild and garden plants, including deciduous and evergreen trees?</p> <p>Can I identify and describe the basic structure of a variety of common flowering plants, including trees?</p>	<p>Can I observe and describe how seeds and bulbs grow into mature plants?</p> <p>Can I find out and describe how plants need water, light and a suitable temperature to grow and stay healthy?</p>	<p>Can I describe the basic needs of plants for survival?</p> <p>Can I describe the main changes as seeds and bulbs grow into mature plants?</p> <p>Can I identify and name a variety of common wild and garden plants, including deciduous and evergreen trees?</p>
<b>Animals, including humans</b>	<p>Can I explore the natural world around me, making observations and drawing pictures of animals?</p> <p>ELG</p> <p>Can I explore the natural world around me, making observations and drawing pictures of plants?</p>	<p>Can I <b>identify and name</b> a variety of common animals including fish, amphibians, reptiles, birds and mammals?</p> <p>Can I <b>describe and compare</b> the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals)?</p> <p>Can I identify and name a variety of common animals that are carnivores, herbivores and omnivores?</p> <p>Can I 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>Can I notice that animals, including humans, have offspring which grow into adults?</p> <p>Can I describe the life cycles of humans?</p> <p>Can I describe the life cycles of some creatures where the babies do not look like the adults? (frog, butterfly)</p> <p>Can I find out about and describe the basic needs of animals, including humans, for survival (water, food and air)?</p> <p>Can I describe a healthy diet?</p> <p>Can I explain which foods belong to different food groups?</p> <p>Can I explain how germs spread and how to stop them from doing so?</p> <p>Can I describe the importance of exercise for humans?</p>	<p>Can I name and locate parts of the human body, including those related to the senses?</p> <p>Can I describe the importance of exercise, a balanced diet and hygiene for humans?</p> <p>Can I describe the basic needs of animals for survival and the main changes as young animals, including humans, grow into adults?</p>



## Progression of skills - SCIENCE

<p><b>Everyday materials</b></p>	<p>Can I use my senses in hands-on exploration of natural materials?</p> <p>Can I explore collections of materials with similar and/or different properties?</p> <p>Can I explore and talk about different forces I can feel?</p> <p>ELG Can I understand some important processes and changes in the natural world around me, including the changing states of matter?</p>	<p>Can I distinguish between an object and the material from which it is made?</p> <p>Can I identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock?</p> <p>Can I describe the simple physical properties of a variety of everyday materials?</p> <p>Can I compare and group together a variety of everyday materials by their simple physical properties?</p>	<p>Can I 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>Can I find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching?</p>	<p>Can I use my knowledge and understanding of the properties of materials, to distinguish objects from materials, identify and group everyday materials, and compare their suitability for different uses?</p>
<p><b>Seasonal changes</b></p>	<p>Can I understand some important processes and changes in the natural world around me, including the seasons?</p> <p>ELG Can I understand some important processes and changes in the natural world around me, including the seasons and changing states of matter?</p>	<p>Can I observe changes across the four seasons?</p> <p>Can I observe and describe weather associated with the seasons and how day length varies?</p>		<p>Can I observe changes across the four seasons?</p> <p>Can I observe and describe weather associated with the seasons and how day length varies?</p>
<p><b>Living things and their habitats</b></p>	<p>Can I begin to explore and understand the need to respect and care for the natural environment and all living things?</p>		<p>Can I explore and compare the differences between things that are living, dead, and things that have never been alive?</p> <p>Can I identify that most living things live in habitats to which they are suited?</p>	<p>Can I identify whether things are alive, dead or have never lived?</p> <p>Can I name different plants and animals and describe how they are suited to different habitats?</p>



## Progression of skills - SCIENCE

	<p>Can I recognise some environments that are different from the one in which I live?</p> <p>ELG Can I identify some similarities and differences between the natural world around me and contrasting environments, drawing on my experience of what has been read in class?</p>		<p>Can I 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>Can I identify and name a variety of plants and animals in their habitats, including micro-habitats?</p> <p>Can I 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>	<p>Can I group animals according to what they eat, describe how animals get their food from other animals and/or from plants, and use simple food chains to describe these relationships?</p>
<p><b>Working Scientifically</b></p>	<p>Can I ask simple questions and recognise that they can be answered in different ways?</p> <p>Can I observe closely, using simple equipment?</p> <p>Can I perform simple tests?</p> <p>Can I identify and classify?</p> <p>Can I use my observations and ideas to suggest answers to questions?</p> <p>Can I gather and record data to help in answering questions?</p>			