



## Science Subject Learning at KS1

- **Animals including Humans**

At KS1, children will study different common animals and learn to identify and name them. They will begin to understand that animals can be grouped into fish, amphibians, reptiles, birds and mammals and will learn that some animals are carnivores, some are herbivores and some are omnivores, identifying examples of each. They will also describe and compare the structure of a variety of animals.

Children will continue to learn about the human body and identify, name, draw and label the basic parts. They will say which part of the body is associated with each sense and investigate how our senses work. They will see that animals, including humans, have offspring which grow into adults and begin to understand the nature of lifecycles. They will investigate and describe the basic needs of animals, including humans, for survival (water, food and air) and describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.

- **Living Things and their Habitats**

Children begin to investigate the life processes by exploring and comparing the differences between things that are living, dead, and things that have never been alive. They understand that most living things live in habitats which are most suitable for them and describe how different habitats provide for the basic needs of different kinds of animals and plants. They also begin to understand how different animals and plants depend on each other. They learn to identify and name a variety of plants and animals in different habitats, including microhabitats. Finally, they 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.

- **Materials**

To begin their learning in this area, children learn to distinguish between an object and the material from which it is made before going on to identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. They investigate and describe the simple physical properties of a variety of everyday materials and compare and group together a variety of everyday materials on the basis of their simple physical properties. They explore and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses and finally find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

- **Plants**

Children learn to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees and identify and describe the basic structure of a variety of

common flowering plants, including trees. They observe and describe how seeds and bulbs grow into mature plants and investigate and describe how plants need water, light and a suitable temperature to grow and stay healthy.

- **Seasonal Changes**

Children will observe changes in weather, temperature and trees/plants across the four seasons and explain how day length varies.

## **Working Scientifically at KS1**

Children's skills in working scientifically will include:

- 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.