

## Autumn Term Year 2 Science Overview

### Key facts

Identify and compare the suitability of a variety of everyday materials including wood, metal, plastic, glass, brick/rock and paper/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. Ask simple questions. Observe closely, using simple equipment. Perform simple tests. Identify and classify. Use observations and ideas to suggest answers to questions. Gather and record data to help in answering questions.

### Materials

### Brief summary/ overview

This concept involves becoming familiar with a range of materials, their properties, uses and how they may be altered or changed.

### Prior Knowledge

Children will be able to identify certain materials and may explain their uses.

### Key Vocabulary

Predict, Conclude, Experiment, Investigate, Compare, Manipulate, Record, Findings, Select, Properties, Materials, Suitability, Strength, Weakness, Staggering, Pressure

### Resources

Various materials  
Equipment for investigations  
Objects that can be manipulated in different ways

### Cross curricular links/visits

Forest school links- building using various materials  
History – houses from the Great Fire of London

## Spring Term Year 2 Science Overview

### Key facts

Explore things that are living, dead and things that have never been alive. Items/pictures on tables for children to explore.

Compare and group things that are living, dead and things that have never been alive. Things that are living might be breathing, moving, feeding or growing. Things that are dead have been alive, not moving, breathing or growing. Things that have never been alive don't grow, move, or need anything.

Describe and compare habitats for living things discussing how it accommodates for their needs. House for humans. Burrows for rabbits. Homes for dogs and cats. Sea for fish. Trees for birds. Identify and classify a variety of plants and animals in their habitats.

Describe and explain how animals obtain food from plants and other animals. Food chain knowledge. Knowing that plants and animals eat each other in order to survive. Mention Venus fly traps.

Demonstrate a simple food chain (lettuce, rabbit, fox, bear) and identify sources of food.

### Resources

Different pictures of things that are alive.

Objects/Artefacts that are dead/have never been alive.

### Living things and their habitats.

### Brief summary/ overview

This concept involves becoming familiar with a wider range of living things, including insects and understanding life processes.

### Prior Knowledge

Children will be able to identify certain animals and be able to describe basic things that are alive/dead.

### Key Vocabulary

Predict, Conclude, Experiment, Investigate, Compare, Manipulate, Record, Findings, Select, Living, Dead, Food, Hot, Warm, Cold, Dry Damp, Wet, Suitability Never alive, Habitats, Microhabitats, Food chain, Healthy Food source, Shelter, Conditions

### Cross curricular links/visits

Forest school links-  
Cameras monitoring animals.

## Summer 1 Year 2 Science Overview

### Key facts

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.

Ask simple questions.

Observe closely, using simple equipment.

Perform simple tests.

Identify and classify.

Use observations and ideas to suggest answers to questions.

Gather and record data to help in answering questions

## Plants

### Brief summary/ overview

This concept involves becoming familiar with different types of plants, their structure and reproduction.

### Prior Knowledge

Children will be able to identify certain plants and what they need in order to survive.

### Key Vocabulary

Predict, Conclude, Experiment, Investigate, Compare, Manipulate, Record, Energy, Findings, Select, Growth, Germination, Reproduction, Deciduous, Evergreen, Photosynthesis, Features, Roots, Stem, Osmosis, Absorption, Evaporation, Food source

### Resources

Equipment for investigations

Pots and plants

Plant diagrams for the teaching of structure.

### Cross curricular links/visits

Forest school links-  
Growing plants

## Summer 2 Year 2 Science Overview

### Key facts

Notice that animals, including humans, have offspring which grow into adults. Investigate 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. Ask simple questions. Observe closely, using simple equipment. Perform simple tests. Identify and classify. Use observations and ideas to suggest answers to questions. Gather and record data to help in answering questions

### Animals including Humans

### Brief summary/ overview

This concept involves becoming familiar with different types of animals, humans and the life processes they share.

### Prior Knowledge

Children will be able to identify certain animals and what they need in order to survive.

### Key Vocabulary

Predict, Conclude, Experiment, Investigate, Compare, Manipulate, Record, Findings, Select, Exercise, Offspring, Survival, Life cycle, Hygiene, Nutrition, Reproduce

### Resources

Equipment for investigations  
Pictures of animals  
Forest school cameras

### Cross curricular links/visits

Forest school links- Animal cameras