

Science Overview

FOUNDATION STAGE

Understanding of the World

Linked to KS1 Objectives - Living things and their Habitats

Continuous provision:

- Identification that different plants and animals prefer different places to live and grow
- Farm visits the school
- Identification of animals and their babies
- Butterfly life cycle
- Watching caterpillars change
- Forest walks/ garden
- Observe how habitats change over the year

Linked to KS1 Objectives – Materials

Continuous provision:

- Floating and sinking
- Builders yard
- Material Hunt
- Collages of different textures
- Making boats/vehicles
- Mud kitchen
- Melting chocolate
- Ice
- Cornflour and water mix
- Clay
- Floating and sinking
- Making costumes for different weathers
- Making houses for the Three Pigs
- Magnifying glasses to look closely at different materials
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Linked to KS1 Objectives – Plants

Continuous provision:

- Garden area
- Growing, maintaining, finding out names and features of plants
- Planting seeds – Do bigger seeds make bigger plants?
- Planting flowers with children that will attract butterflies
- Leaf sorting and classification
- Stick collections
- Sensory garden
- Forest School

Linked to KS1 Objectives – Animals and Humans

Continuous provision:

- Nurses Visit
- Healthy Eating Week

KEY STAGE 1

Working Scientifically- Children will cover the national curriculum objectives using these practical scientific methods, processes and skills.

Ask their own questions about what they notice

Use different types of scientific enquiry to gather and record data, using simple equipment where appropriate to answer questions including:-

- observe changes over time
- noticing similarities, differences and patterns
- grouping and classifying things.
- Carrying out simple comparative tests
- Finding out things using secondary sources of information

Communicate their ideas, what they do and what they find out in a variety of ways

Seasons – Autumn, Winter, Spring and Summer (Year 1)

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

Materials – Autumn 1 (Year 2) Part 1

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

Materials – Autumn 2 (Year 1) Part 1

- 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 on the basis of their simple physical properties.

Materials – Autumn 2 (Year 2) Part 2

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

Materials – Spring 1 (Year 1) Part 2

- 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 on the basis of their simple physical properties.

Animals including humans (Year 2)- Spring 1 – Part 1

- Describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene.

Animals including humans (Year 1) – Spring 2

- 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, mammals, including pets).
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Animals including humans (Year 2)- Spring 2 – Part 2

- 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, air).

Plants (Year 1) – Summer 1

- Identify and name a variety of common wild and garden plants
- Identify and describe the basic structure of a variety of common plants

Plants (Year 2) – Summer 1

- 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 (Year 1) – Summer 1

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

Living things and their habitats (Year 2) – Summer 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 micro-habitats.
- 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.