Class 1 Science Essential Knowledge

Cycle A (2024-2025):

Materials

Everyday Materials and Their Properties. By the end of this unit what should children know?
I can identify the properties of a variety of everyday materials such as plastic, metal, wood, glass and rock.
I can distinguish between an object and the material from which it's made.
I can group and compare everyday materials.
Vocabulary Flexible, strong, hard, soft, transparent, material

Animals, including Humans

Animals Including Humans. By the end of this unit what should children know?
I can identify, name, and label the basic parts of my body.
I can say which part is associated with each sense.
I can identify and name a variety of common animals.
I can identify and name carnivores, herbivores and omnivores.
I can describe and identify the structure of common animals.
Vocabulary Carnivore, herbivore, omnivore, exercise, nutrition, disease, diet, mammals, birds, amphibians, reptiles, fish.

Use of Everyday Materials

Uses of Everyday Materials. By the end of this unit what should children know?
Know that objects can be changed by bending, squashing, twisting and stretching.
Consider how everyday materials can be used in range of ways.
I can use my knowledge of the properties of materials to invent a new use for a material.
Vocabulary Rigid, firm, flexible, waterproof, elastic

Plants

Plants. By the end of this unit what should children know?
I know that seeds and bulbs grow into mature plants.
I understand what plants need to grow and stay healthy.
I understand the difference between a seed and a bulb.
Vocabulary Germination, seed, bulb, growth, survival

Animals, including Humans.

Animals
The importance of exercise, a balanced diet and hygiene.
The basic needs of animals, including humans.
That animals, including humans, have offspring which grow into adults.
Vocabulary Survival, offspring, exercise, hygiene, shelter, diet

Class 1 Science Essential Knowledge

Cycle B (2025-2026)

Autumn: *Living Things and Their Habitats (Y2)*

Living Things and Their Properties. By the end of this unit what should children know?
I will begin to explore and compare the differences between things that are living, dead and things that have never been alive.
I understand that most living things live in habitats which suit them. I can describe how different habitats in Morley provide for the basic needs of different needs of animals and plants.
I can describe how animals obtain their food from plants and other animals, using the idea of a simple food chain and identify and name the different sources of food.
Vocabulary Habitat, microhabitat, environment, classifying, sorting, alive, dead

Spring: *Everyday Materials (Y1)*

Everyday Materials. By the end of this unit what should children know?
I will be able to identify and name different materials.
I will be able to tell the difference between an object and the material it is made from.
I will be able to describe the properties of everyday materials
I will be able to carry out a simple investigation.
I will be able to sort objects by their properties.
Vocabulary Material, properties, object, waterproof, transparent, opaque

Summer 1: *Plants*

Plants - By the end of this unit what should children know?
Year 1 – I can Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees, that I can find around Morley.
I can Identify and describe the basic structure of a variety of common flowering plants, including trees.
Year 2 – I can observe and describe how seeds and bulbs grow into mature plants.
I can find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.
Vocabulary Variety, common, wild, deciduous, evergreen, petals, leaves, stem, roots, temperature

Summer 2: *Plants*

Plants- By the end of this unit what should children know?
I will be able to say that a plant needs water, light, soil and warmth to grow and stay healthy.
I can explain that germination means when the plant starts to grow from a seed or bulb.
I can say how some plants have special features so they can live in different habitats e.g. hairy stems to keep warm.
Vocabulary Healthy, water, light, soil, warmth, germination, seed, bulb