

|             | Science Knowledge Organiser |  |
|-------------|-----------------------------|--|
| Autumn Term | Year 2                      | Stands covered: Habitats, the changing world and materials |

## What Prior Knowledge should students have?

- Animals eat different types of food
- Animals are suited to different habitats
- What plants need to grow
- Materials and their properties
- Materials and their different purposes

| Key Vocabulary | Definition   |  |
|----------------|--|--|
| Absorbent      | able to soak up liquid easily.   |  |
| Classify       | to group objects according to similarities in appearance or properties.  |  |
| Compost        | decayed organic material which is used as a fertiliser for plants.   |  |
| Food Chain     | a series of organisms dependent on the previous as a source of food.   |  |
| Habitat        | a place where an animal finds the things it needs to live – food, water, and shelter.                                      |  |
| Offspring      | the young of a living organism.  |  |
| Once-lived     | was once a living organism, or part of one, but is now dead, for example wood.   |  |
| Opaque         | not able to be seen through; not transparent.  |  |
| Stem           | the part of a plant that supports the branches, leaves and flowers. It helps to take water and nutrients around the plant. |  |
| Translucent    | property of a substance which light can be seen through, but not detailed shapes.  |  |

## What Skills will students learn (Disciplinary Knowledge)

- Observations over time
- Evidence gathering and data recording
- Use of results to make suggestions
- Classifying

## What key knowledge will be taught (Substantive Knowledge)

- Different habitats: how living things are suited to the habitat and the interactions between the living organisms within a habitat.
- How habitats change throughout the year: develop an understanding of the different animals living in a habitat to build up simple food chains.
- Animal life cycles.
- Different materials and their properties: consolidate understanding that one type of object can be made from different materials and also that one material can be used for a number of different objects.
- Develop understanding of the simple physical properties of materials and consider in more detail how these properties make materials useful for particular purposes.

Transparent See-through.

## **Common Misconceptions**

- Children will not necessarily define seeds/berries as living.
- Children may not realise that wooden objects are once-lived.
- When constructing food chains, children may incorrectly link animals that do not live in the same habitat.
- Children often put the arrows the wrong way round in a food chain as they use the arrows to indicate what an animal eats rather than what it is eaten by.
- Children sometimes use the word 'material' to describe fabric and textiles. They need to be reminded that in science the word material is a generic word used to describe what something is made of.