

SCIENCE: Knowledge, Skills and Understanding Progression Grid

| | Plants | Animals including Humans | Living Things and their Habitats | Everyday Materials | Seasonal Changes |
|---|---|--|--|--|--|
| Reception | <ul style="list-style-type: none"> Explore the natural world around them, making observations and drawing pictures of animals and plants Notice some differences between different plants and animals they experience | <ul style="list-style-type: none"> Explore the natural world around them, making observations and drawing pictures of animals and plants Know body songs 'Head Shoulders, Knees and Toes', 'One Finger, One Thumb' Talk about and draw pictures of facial features – eyes, nose, mouth, ears | <ul style="list-style-type: none"> Explore the natural world around them, making observations and drawing pictures of animals and plants Know some similarities and differences in relation to living things | <ul style="list-style-type: none"> Talk about the differences between materials and changes they notice. Understand some important processes and changes in the natural world around them, including changing states of matter Offer explanations for why things might happen, making use of recently introduced vocabulary | <ul style="list-style-type: none"> Understand the effect of changing seasons on the natural world around them Understand some important processes and changes in the natural world around them, including the seasons Note and record the weather |
| Year 1 | <ul style="list-style-type: none"> Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees Identify and describe the basic structure of a variety of common flowering plants, including trees | <ul style="list-style-type: none"> Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense 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 and mammals, including pets) | | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies |
| Year 2 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Find out about 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 Notice that animals, including humans, have offspring which grow into adults | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and 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 | <ul style="list-style-type: none"> Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies |
| KS1 – Working Scientifically | | | | | |
| Year 1 | | | Year 2 | | |
| Identify and sort materials into groups Sort in response to a given criterion through observation Sort based on their own chosen criteria Ask and answer questions related to the science topic Know how to use magnifying lenses to observe more closely Use post-it-notes for labelling their sorted items Use drawings, photographs and words to record their findings Know how to draw labelled pictures Use information from their findings to answer simple questions | | | Identify and sort objects and materials in response to a given criterion Observing when doing simple testing and measuring – floating/sinking, length Choose their own criteria when sorting and explain why they have sorted certain items into certain groups Ask relevant questions and answer questions related to their prior and current science learning Know how to use magnifying lenses to observe more closely Use post-it-notes for labelling their sorted items Use rulers for measuring Use drawings, labelled with scientific vocabulary when recording findings Use photographs and complete tables to record their findings Use their findings to answer relevant questions. | | |