

## Reception

### Plants:

Observe plants and how they change

Grow beans and cress

What do seeds need

Vocabulary: water, sunlight, grow, plant, soil, root

### Animals including humans:

Observe animals and changes they go through—why do they occur?

How humans change and how we grow

Lifecycle of a butterfly (The Very Hungry Caterpillar)

Vocabulary: change, grow, different, same, differences, similarities, baby/babies

### Living things and their habitats

Similarities and differences in relationship to living things

Habitats (cross curricular English)

Vocabulary: homes, habitats, live, stone, rock, desert, log, ice, woodland, forest

### Materials

Similarities and differences of materials

Sorting, naming and describing materials—bridge experiment, floating and sinking

Vocabulary: wood, plastic, glass, textiles, rubber

### Seasonal changes

Autumn/Spring walks—leaf hunts

What changes can we see / feel?

Describe the environment at home / school

Vocabulary: environment, changes, weather, seasons, hot, cold, wet,

## Year 2

### Plants

Observe and describe how seeds and bulbs grow—seed dispersal, hydroponic beans

Find out and describe how plants need water, light and the correct temperature to grow

Vocabulary: hydroponic, photosynthesis, seed dispersal, spreading, pollination, decompose

### Animals including humans

Notice that animals including humans have offspring (butterflies, chickens, humans)

Basic needs of humans for survival

Describe the importance of exercise, diet, hygiene to humans (washing hands experiment, sugar smart investigation)

Vocabulary: egg, chick, pupa, chrysalis, pupate, Metamorphosis, survival, nutrition, reproduction, growth, healthy

### Living things and their habitats

Explore and compare the differences of living/dead/ never been alive

Identify things that live and describe how their habitat is suitable to them and how do their habitats provide for them

Identify and name a variety of plants and animals

Describe how animals obtain food through the food chain

Vocabulary: microhabitats, food chain, adaptation, predator, consumer, producer

### Materials

Identify and compare materials—bouncy ball experiment, which material holds the most weight, Charles Mackintosh—waterproof coat

How can shapes of solid objects change?

Vocabulary: squashing, bending, twisting, stretching

## Year 1

### Plants

Identify and name plants and trees

Identify and name the structure of plants and trees

Grow sunflowers, beans (root structure/how they grow), cress (light/dark)

Vocabulary: seed, stem, root, petal, trunk, flower, fruit, deciduous, evergreen

### Animals including humans

Identify and name a variety of common animals

Describe and compare the structure of categories including pets and label parts

Identify, label and name body parts

Explore and name senses

Vocabulary: fish, amphibian, reptile, bird, mammal, carnivore, herbivore, omnivore, classifying

### Materials

Understand what objects are made from—waterproof experiment

Identify and name materials

Describe physical properties of materials

Compare and group materials

Vocabulary: hard/soft, stretchy/stiff, shiny/dull, rough/smooth, bendy/not bendy, waterproof/not waterproof, absorbent/not absorbent, opaque/transparent

### Seasonal changes

Why seasons occur

Observe and describe the weather—ice hand, penguin huddle, snow flakes

Vocabulary: observe, changes, season, describe, seasonal, varies, weather