

# SCIENCE KEY KNOWLEDGE YEAR 1

## WHAT CAN YOU REMEMBER?

### Senses

1. **Sight with Eyes:** I know that my eyes are used for sight, allowing me to see the world around me.
2. **Hearing with Ears:** I know that my ears are used for hearing, helping me detect sounds, music, and voices.
3. **Smelling with Nose:** I know that my nose is used for smelling, enabling me to identify different scents and odors.
4. **Tasting with Tongue and Mouth:** I know that my tongue and mouth are used for tasting, which helps me enjoy various flavors in food and drinks.
5. **Feeling with Hands and Skin:** I know that my hands and skin are used for feeling, allowing me to sense textures, temperatures, and pressure.

### Materials

1. **Understanding Objects and Materials:** An object is something you can physically touch, while a material refers to what that object is made from.
2. **Common Materials:** I can identify and name various materials such as wood, plastic, glass, metal, water, and rock, each with unique characteristics.
3. **Everyday Objects:** I can recognize objects made from these materials, like wooden furniture, plastic bottles, glass windows, metal cans, water in a glass, and rock in a garden.
4. **Describing Properties:** I can describe the properties of everyday materials using words like hard, soft, smooth, rough, waterproof, absorbent, flexible, and rigid.
5. **Material Awareness:** By understanding the properties of different materials, I can make informed choices about which materials to use for specific purposes, like choosing waterproof materials for rain gear or absorbent materials for towels.

### Plants

1. **Identifying Local Flora:** I can name various trees and plants found in our school grounds, including oak, holly, silver birch, bluebell, daisy, dandelion, buttercup, nettle, and daffodil.
2. **Deciduous Trees:** I know that deciduous trees, like oak and birch, grow a single set of leaves in spring, which they retain until autumn, when those leaves fall off.
3. **Evergreen Trees:** I understand that evergreen trees, such as holly and pine, continuously grow new leaves throughout the year, keeping their foliage regardless of the season.
4. **Wildflowers:** I know that a wildflower is a flower that grows naturally without being planted by people, adding beauty to our landscapes.
5. **Plant Structure:** I can describe the parts of a tree, which include a trunk, roots, branches, and leaves, as well as the components of a plant: roots, a stem, leaves, and a flower with petals. Additionally, I know that a seed develops into a larger plant, tree, or bush.

### Seasons

1. **Four Seasons:** I know that there are four seasons: autumn, winter, spring, and summer, and we explore these in our learning throughout the year.
2. **Autumn Weather:** I know that autumn in the United Kingdom can be getting colder, rainy, and windy, but it can still be bright at times.
3. **Winter Weather:** I know that winter brings cold, frosty, snowy, and icy conditions, with darker evenings and mornings, shorter days, and fewer hours of sunlight.
4. **Spring Weather:** I know that spring is a time when it gets warmer, with rainy spells and brighter days as the season progresses.
5. **Summer Weather:** I know that summer is warm or hot, with rainy days, lighter evenings and mornings, and longer days with more hours of sunshine.

### Animals

1. **Vertebrate Groups:** I can name the five vertebrate animal groups: fish, amphibians, reptiles, birds, and mammals.
2. **Examples of Vertebrates:** I know specific examples for each group: a shark is a type of fish, a frog is an amphibian, a snake is a reptile, a parrot is a bird, and a dog is a mammal. I also know that humans are mammals.
3. **Diet Types:** I understand the different diets of animals: carnivores eat meat (like lions), herbivores eat plants (like rabbits), and omnivores eat both meat and plants (like humans).
4. **Fish Characteristics:** I know that fish are cold-blooded, have scales, fins, and gills, live in water, and lay eggs in water.
5. **Animal Features:** I can describe the characteristics of other vertebrates: amphibians are cold-blooded, lay eggs called spawn, and can live both on land and in water; reptiles are cold-blooded, have scales, and lay eggs; birds have wings and feathers and lay eggs; mammals are warm-blooded, have hair or fur, give birth to live young, and feed their babies milk.

