



Year 2 - Spring - Science Knowledge Organiser

What I already know...

During Year 1 the children explore the following:

- Wild plant seed grows where they fall, e.g.– daisy, ivy dandelion
- Garden plants are plants people choose to plant, e.g. sunflower, Rose sweet pea
- Trees can be deciduous and lose leaves or evergreen and keep leaves even in winter

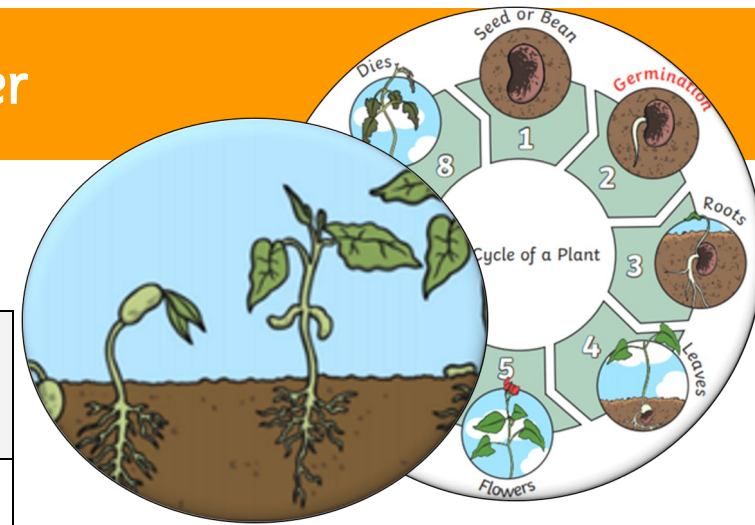
What I will learn...

Plants

- What things does a plant need to grow? In order for a seed to survive and grow into a strong plant, it needs water, light, suitable temperature, nutrition (sunlight) air and time.
- To understand the lifecycle of a plant: 1. seed or bean 2. germination 3. roots 4. leaves 5. flowers 6. fruit 7. seed dispersal 8. dies
- To understand what the following are and their function of a plant or tree: seeds, roots, stem, leaves, flower, petals, trunk, bulb, germinate / germination, sprout, shoot, seed dispersal
- Children to observe seeds and plants as they grow keeping a record of the different stages.
- Plants use their leaves to absorb the sunlight and use the energy in the sunlight to make their own food.
- Seeds and bulbs can germinate and sprout under the soil without sunlight, because seeds and bulbs contain a store of food that the plant uses to begin to grow. When this is used up, the plant needs more food so it can keep getting bigger.

Key Vocabulary

Germination	When the conditions are right, the seed soaks up the water and swells, and the tiny new plant bursts out of its shell. This is called germination.
Sprout	When a plant sprouts, it grows new shoots.
Shoot	A shoot grows upwards from the seed or plant to find sunlight.
Seed Dispersal	Seed dispersal is when the seeds move away from the parent plant. They can be moved by the wind or animals.
Sunlight	All plants need light from the sun to grow well. Some plants need lots of sunlight. Some plants only need a little sunlight.
Water	All plants need water to grow. Without water, seeds and bulbs will not germinate.
Temperature	Temperature is how warm or cold something or somewhere is. Some plants like cooler temperatures and some like warmer temperatures.
Nutrition	Food or nourishment. Plants make their own food in their leaves using sunlight.



Making a difference at The Merton and beyond

During our unit about plants, Year 2 learn the names of different parts of plants, and their functions. The children work scientifically and collaboratively to investigate what plants need to grow well, and will present their findings to their classmates. Furthermore, they have chance to predict what will happen during investigations. We will grow our own plants in recycled pots/jars and learn about local production in order to make fruit salads in Design and Technology.

How to be a scientist

- I will observe a plant changing and growing.
- I will investigate what plants need to grow well.
- I will predict what will happen during our investigation.
- I will present my findings of what helps a plant to grow.