



**Science Topic:** Plants

**Year: 3 Term:** Summer 2

## Key Knowledge/Content:

- Plants are producers, they make their own food.
- Their leaves absorb sunlight and carbon dioxide
- Plants have roots, which provide support and draw water from the soil
- Flowering plants have specific adaptations which help it to carry out pollination, fertilisation and seed production
- Seed dispersal improves a plants chances of successful reproduction
- Seeds/bulbs require the right conditions to germinate and grow.
- Seeds contain enough food for the plant's initial growth

## Scientist Focus:

### **Jeanne Baret (Botanist)**

Travelled the world to investigate plants.

## Links to:

### Prior learning:

Know what a plant needs to survive, investigating what happens when these are taken away.

### Future learning:

Look in closer detail at the life cycle of flowering and non-flowering plants.

## Key vocabulary with definition:

### Prior vocabulary:

- Air
- Light
- Water
- Nutrients
- Growth
- Support

### New vocabulary:

- Anther- Contains the pollen.
- Filament- Holds the anther.
- Sepal- Holds the petals.
- Stigma- Where pollen germinates.
- Style- Connects the ovary.
- Ovary- Holds the seeds.
- Reproduction- How plants produce offspring (more plants).
- Pollination- The process of spreading seeds.
- Dispersal- Spreading.
- Oxygen- Plants release this and humans breathe it in to survive.
- Carbon dioxide- Plants use this to survive and humans breathe it out.
- Photosynthesis- The process a plant uses to make food.

## By the end of this unit

**All children can:** identify the male and female reproductive organs in a plant and list the ways that seeds are dispersed for reproduction.

**Most children can:** investigate how the stem carries water through a plant and explain the process of photosynthesis.

**Some children can:** compare how plants survive in different environments and explain the ideal conditions for a plant to grow.

## Background understanding for teachers and parents:

This unit will allow children to look in further detail at the different parts of plants. They will look at how plants reproduce and use investigations to identify how plants carry water and produce energy.

## Curriculum Driver (one):

Knowledge of the World

### Evidence outcome:

Know how plants survive in different environments, including in a desert and in colder countries.