



## Year 3/4 Science Knowledge Organiser: Plants



### Subject Specific Skills:

- I can identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
- I can explore the requirements of plants for life and growth, and how they vary from plant to plant
- I can investigate the way in which water is transported within plants
- I can explore the part that flowers play in the life cycle of flowering plants including pollination, seed formation and seed dispersal.

### Prior Learning:

- I can observe and describe how seeds and bulbs grow into mature plants
- I can find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.

### Key Vocabulary:

**Flowers:** These make seeds to grow into new plants. Their petals attract pollinators to the plant.

**Nutrients:** These substances are needed by a living thing to grow and survive. Plants get nutrients from the soils and make their own food in their leaves.

**Fertilisation:** When the male and female parts of the flower have mixed to make seeds for new plants.

**Petal:** The brightly coloured part of the flower that attracts insects to pollinate the plant.

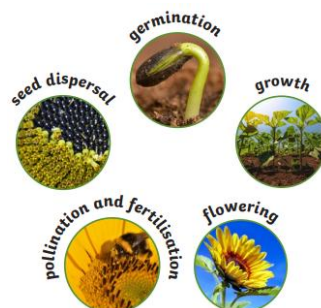
**Stamen:** The male parts of the flower. The stamen is made up of the anther and the filament. The filament's job is to hold up the anther. The job of the anther is to make pollen.

**Germination:** Germination is the process by which a seed starts to grow.

**Seed dispersal:** Seed dispersal is the method of moving seeds away from the parent plant so the seeds have the best chance of survival.

### Key Knowledge :

#### Life cycle of a flowering plant



#### What does a plant need to grow?



### Key Knowledge:

#### Seed dispersal

How seeds are spread to create new plants.



wind



water



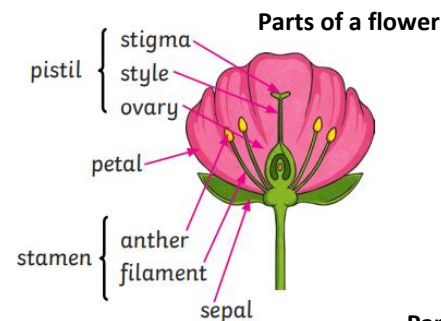
animal  
(carrying)



animal  
(eating)



bursting



#### Parts of a plant

**Fruit**  
encases a plant's seeds and is often eaten by animals

**Flower**  
produces seeds that can grow into new plants

**Leaf**  
absorbs sunlight to make the plant's food

**Stem**  
transports water and food around the plant

**Roots**  
support the plant, take up water, air and nutrients from the soil and can store food and water

