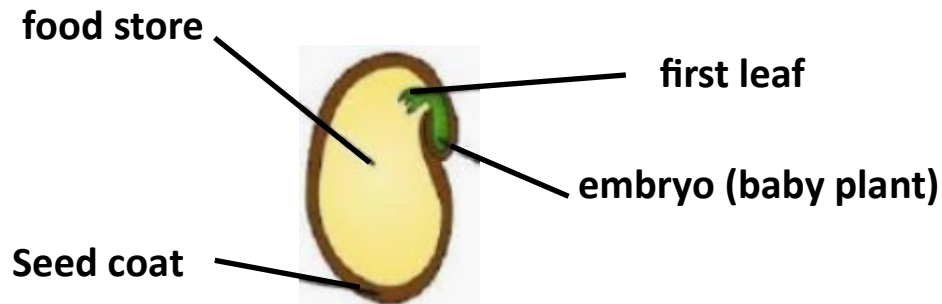


# Year 2 Summer Term Science Knowledge Organiser

**KEY QUESTION:** How do seeds and bulbs grow into mature plants?



## Plant Vocabulary

plant	leaf	seedling	mature
seed	stem	nutrients	observe
lifecycle	root	sunlight	stage
growth	shoot	water	healthy
seed	sprout	embryo	tree
bean	dispersal	seed coat	dandelion
bulb	germinate	food store	rose
flower	condition	reproduce	sunflower
fruit	temperature	survive	daffodil

Inside a seed/bulb is the **embryo** (baby plant).

Seeds have a tough layer on the outside to protect the plant.

This is called the **seed coat**.





Seeds and bulbs do not need sunlight in order to grow. They already have their own **food store** inside them.



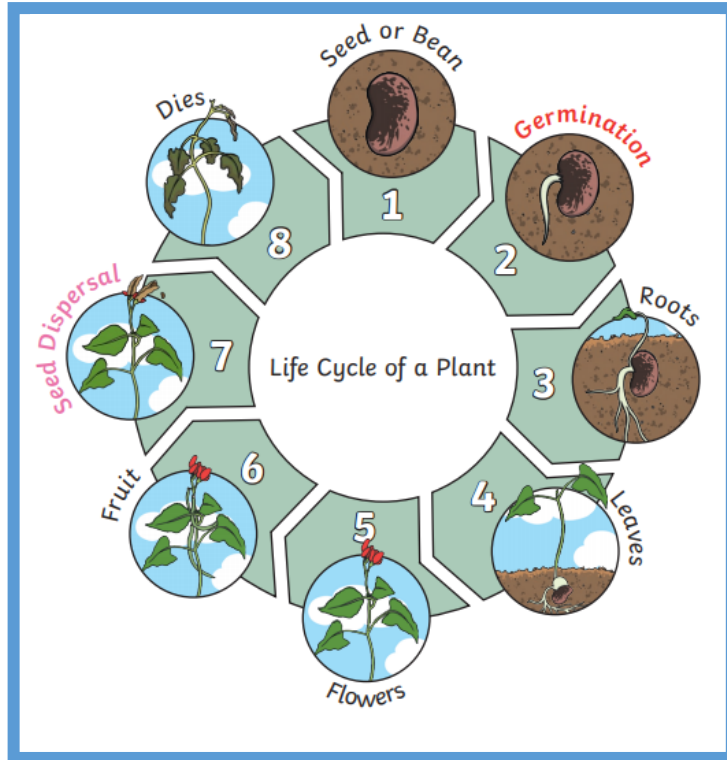
When the conditions are right, the seed soaks up water and swells, and the tiny plant begins to sprout. This is called

**germination.**

## What Plants Need to Grow

Water and Nutrients	Light
 <p>Like animals and humans, plants need water and nutrients to survive.</p> <ul style="list-style-type: none"> <li>-Plants are able to get water from the soil through their roots.</li> <li>-They can also catch water on their leaves.</li> </ul>	 <p>Plants need lots of sunlight to help them grow.</p> <ul style="list-style-type: none"> <li>-Plants do not eat food. They instead use sunlight to make their own food.</li> <li>-Too little light will leave plants weak.</li> </ul>
Temperature	Space and Time
 <p>Plants need the temperature to be just right for them to grow properly.</p> <ul style="list-style-type: none"> <li>-If it is too hot, they may burn and wilt. If it is too cold, they may freeze and die. This is why there are less plants at the poles and the deserts.</li> </ul>	 <p>Plants need room for their roots and stems to be able to grow. Without enough room, they may not grow large enough.</p> <ul style="list-style-type: none"> <li>-Plants also need time – it can take days, months or even years for them to grow.</li> </ul>

Plants have a clear life cycle that helps them to **reproduce**.



### Seeds/bulbs

Plants begin life as seeds or bulbs. They need soil, air and water to grow.

### Seedling

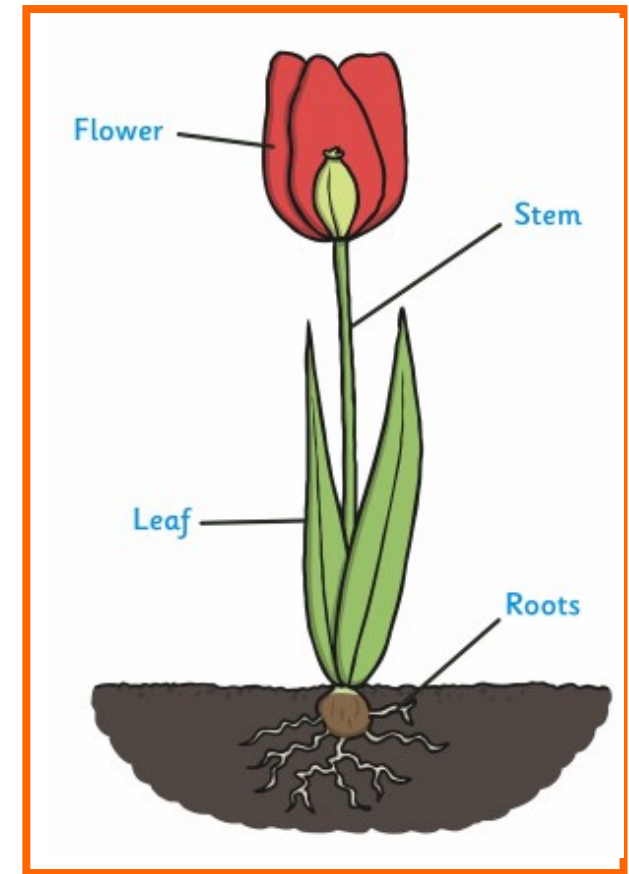
Plants grow into young plants. They need the right conditions to keep growing

### Flowering/ fruit

Plants mature and grow flowers and fruits. These produce seeds.

### Seed dispersal

The seeds are dispersed by the wind or animals and some will find their way into the soil and the process starts again!



#### Smaller Plants

Dandelion – about 25 centimetres

Dwarf Evergreen Shrub – about 1 metre

Sunflower – 1-3 metres

Titan Arum Flower – up to 3.5 metres

Spruce (Christmas Tree) – up to 30 metres

#### Taller Plants

Giant Redwood Tree – 100 metres +

**Activities to complete at home. Bring in your work over the next 4 weeks so it can be celebrated and shared .**

Plant some seeds and keep a weekly diary of how much they have grown. You could take photos.

In your garden or at the park draw and identify 4 different plants.

Find some interesting leaves and see if you can make rubbings using wax /pencil crayons or have a go at some flower pressing.

Collect different leaves and sort them into 3 groups explaining how you have sorted them.