



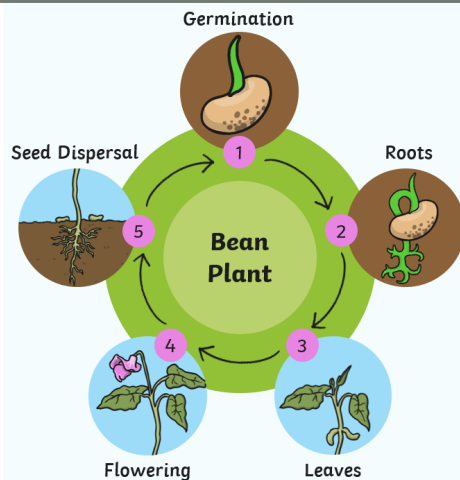
Topic: Apprentice Gardener

Year: 2

Strand: Biology

The life cycle of a flowering plant

Like all living things, plants have a life cycle. They live, reproduce and then die,



What do plants need to grow?

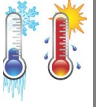
Sunlight: Plants need lots of **sunlight** to help them grow. Plants do not eat food. Instead they use sunlight to make their own food. Too little light will leave plants weak.



Water: Like animals and humans, plants need water to survive. Plants are able to get water from the soil through their **roots**. They can also catch water on their leaves.



Temperature: Plants need the temperature to be just right for them to grow properly. 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 fewer plants at the poles and the deserts.



Key Vocabulary

Flower	Part of a plant that attracts insects and birds.
Plants	What seeds and bulbs grow into.
Seed	The part of a flowering plant that can grow into a new plant.
Bulb	Bulbs are underground masses of food storage from which plants grow.
Germination	The stage of plant growth where the seeds begins to sprout.
Healthy	When something that has everything it needs to grow.
Unhealthy	When something doesn't have everything it needs to grow.
Observations	To look at an object and record what you see.
Plant	To place a seed into soil to allow it to grow.
Seedling	A young plant grown from a seed.
Sunlight	Light from the sun is form of energy which helps plants to grow.

How do seeds grow?

Every single seed has the beginnings of a new plant inside it, along with a little store of food to help it grow. When the conditions are right, the seed soaks up water and swells, and the tiny new plant bursts out of its shell. This is called **germination**.

Embryo:

The tiny root and shoot which will grow into the adult plant.

Food Store:

A store of food for the young plant to use until it has grown enough to make its own food.

Seed Coat:
A tough outer covering.



Why are bulbs different?

A bulb lets the plant rest underground over the winter when it is too cold, then grow back later in the year when conditions are right.

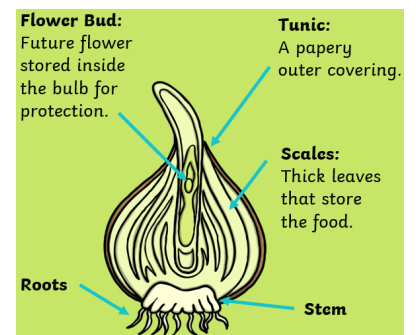
Flower Bud:
Future flower stored inside the bulb for protection.

Tunic:
A papery outer covering.

Scales:
Thick leaves that store the food.

Roots

Stem



Useful Websites

[Plants - Year 1-2 / P2-3 - Science Collection - Home](#)
[Learning with BBC Bitesize - BBC Bitesize](#)

[Plant Facts | All About Plants for Kids | DK Find Out](#)

Enquiry Questions

- What do plants need to grow well?
- How do seeds grow?
- What is germination?
- What stages make up the life cycle of a flowering plant?

Retrieval Quiz

- 1) Name the 3 things plants need to grow.
- 2) What part of the plant helps to support it?
- 3) What is it called when a seed starts to grow?
- 4) What is the tough outer covering of a seed called?
- 5) What happens to plants when they are not watered?