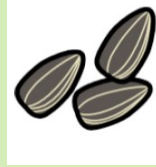
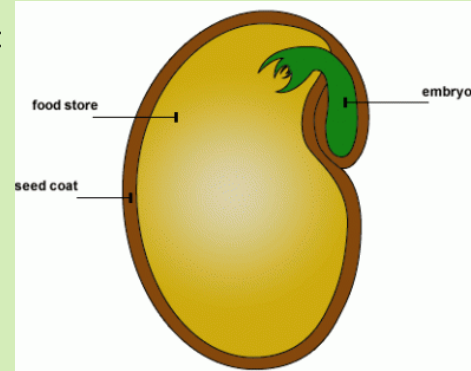


Seeds:



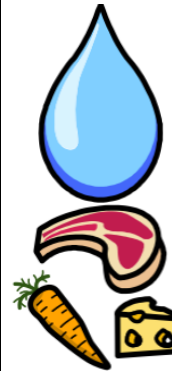
Inside a seed:



- They have a hard outer shell that protects the seed **embryo** inside.
- All seeds need moisture, oxygen and the right temperature to **germinate** - grow.
- Until they have these conditions, the seed remains **dormant** and does nothing.

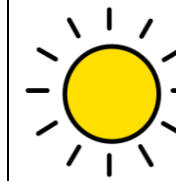
What plants need to grow

Water and Nutrients



- Like animals and humans, plants need water and **nutrients** to survive.
- Plants are able to get water and nutrients from the soil through their **roots**.
- Water is needed to start **germination**. It also softens the seed allowing the plant to grow.

Light



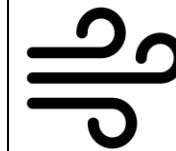
- Plants need lots of sunlight to help them grow.
- Plants do not eat food. They use sunlight to make their own food using **photosynthesis**.
- Not enough light makes plants weak.

Temperature



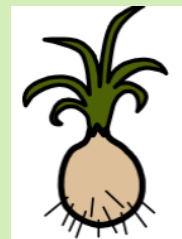
- Plants need the **temperature** to be just right for them to **grow** properly.
- If it is too hot, they might burn and wilt.
- If it is too cold they might freeze and die.
- This is why there are less plants in deserts and the North and South poles.

Air

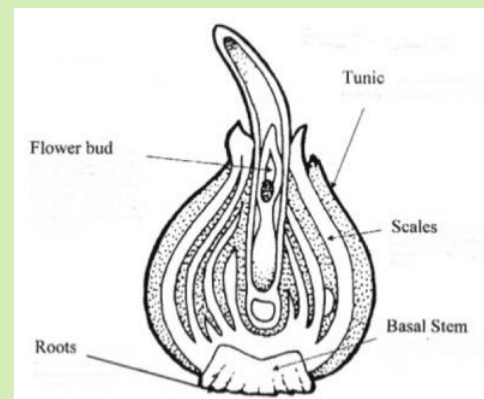


- Plant leaves use carbon dioxide from the air to make sugars and starches for the plant to use as food.

Bulbs:



Inside a bulb:



- Underground stem with one or more buds enclosed in fleshy modified leaves or scales which supply energy to the bud when they start to grow
- All bulbs need moisture, oxygen and the right temperature to **germinate** - grow.
- Seasons affect bulb growth. There are spring blooming, summer blooming, and autumn blooming bulbs.

Germination

Step 1

Step 2

Step 3

Step 4

Step 5



Step 1

Water fills the seed/bulb.

Step 2

Water activates **enzymes** that begin growth.

Step 3

Seed/bulb grows a **root** to get water.

Step 4

Seed/bulb grows **shoots** that grow towards the sun.

Step 5

The shoot grows leaves and begins **photosynthesis**.