

Pye Bank CE Primary DSAT Knowledge Organiser

YEAR 2

BIOLOGY: How do plants grow?

SCIENCE

KEY VOCABULARY



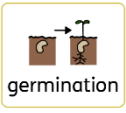
Bulb: a round shape made of leaves with a flat stem at the bottom with small roots. Inside the leaves is a bud from which a side shoot, a leaf or a flower may grow. The bulb may also contain side buds from which other bulbs can grow.



Seed: a capsule which contains a tiny plant and a store of food for it to use as it germinates.



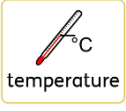
Bud: a growth on the stem which contains a side shoot with leaves, a leaf or a flower. These structures come out when the bud bursts open.



Germination: the process of a seed breaking open to release a root then a shoot.



Greenhouse: a structure in which plants are kept warm. Heat rays from the sun pass through the glass are absorbed by the walls and floor and reflected back to the glass but they are too weak to escape so they warm the air.



Temperature: a measure of how hot or cold something is.



Thermometer: an instrument for measuring the temperature using units called Celsius ($^{\circ}\text{C}$)

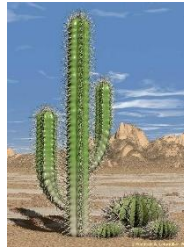


Probe: an instrument which can be used to measure the temperature.

INTERESTING FACT

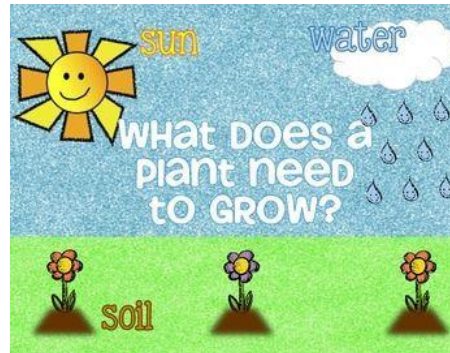
Cacti

Cacti can store water inside their bodies and have a waxy skin to keep it in. They can survive without water for two months in deserts. Some cacti are known to have survived for two years without water.



STICKY KNOWLEDGE

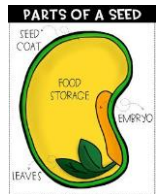
1. Plants need soil, water and light to grow.
2. Most plants grow from seeds.
3. Some plants grow from bulbs.



KEY CONCEPT

Seeds.

- Most plants grow from seeds.
- Some seeds are made in flowers after pollination and fertilisation.
- A seed has a tough outer coat around a tiny plant with a store of food.
- Seeds remain dormant (asleep) until they are given soil, water, and light.
- Not all seeds are dependent on sunlight for germination. However, the amount of light does greatly affect it.
- Warmth is usually needed for a seed to germinate and grow but the amount it needs varies depending on the type of seed.

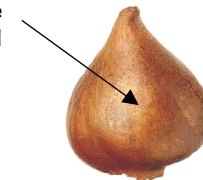


KEY CONCEPT

Bulbs.

- Some plants such as onions grow from bulbs.
- Bulbs are full of food that the long, thin leaves above the soil made the year before.
- When bulbs start to grow a flower and new leaves, it uses the food stored in the bulb.

In the centre is a bud from where the flower will grow.



A tulip bulb.

A tough disc which is a flattened stem.