Plymouth Science

Knowledge Organiser

Plants

VOCABULARY

Plant- a living thing that usually grows from the ground.

Germinate- start of growth.

Photosynthesis- plant uses sunlight to make food for the plant.

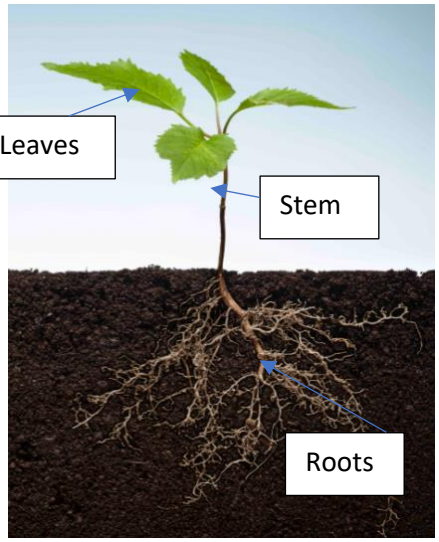
Pollination- flower reproduction.

Animal dispersal- seeds transported on animals through being buried, carried on fur, in berries or in poo.

Water dispersal- seeds are carried from one place to another in the water.

Wind dispersal- seeds are carried from one place to another by wind.

Capillary action- water being transported through the plant.



Roots

Covered in small hairs.
Anchors plant.
Absorb nutrients and minerals.

Flower

Attracts insects.
Helps pollination.
Uses pollen to make new seeds.
POLINATION

Leaf

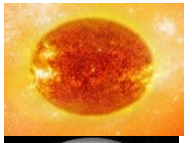
Makes food for the plant using sunlight and carbon dioxide from the air.
PHOTOSYNTHESIS.

Stem

Hold plant up.
Carries nutrients and minerals from the roots to the leaves.

Conditions for growth

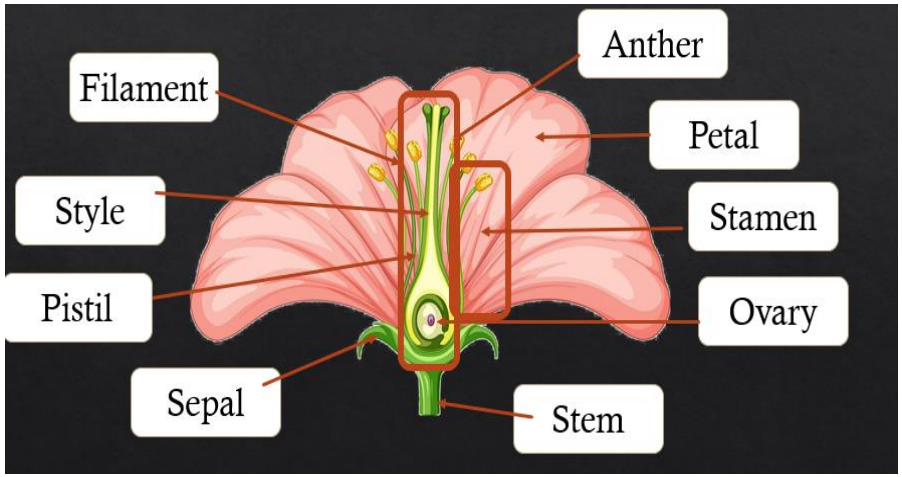
Rain/water	Sunlight	Temperature

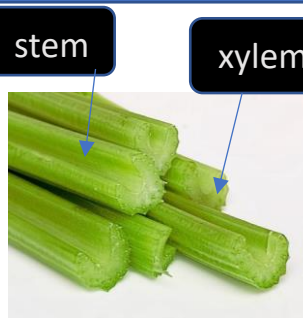


Air	Time	Nutrients

Parts of a flower.



Water, minerals and nutrients



The water is transported through the flower using a process called **capillary action**. The water transports up the stem to the rest of the flower. The water is needed keep the plant alive and healthy.

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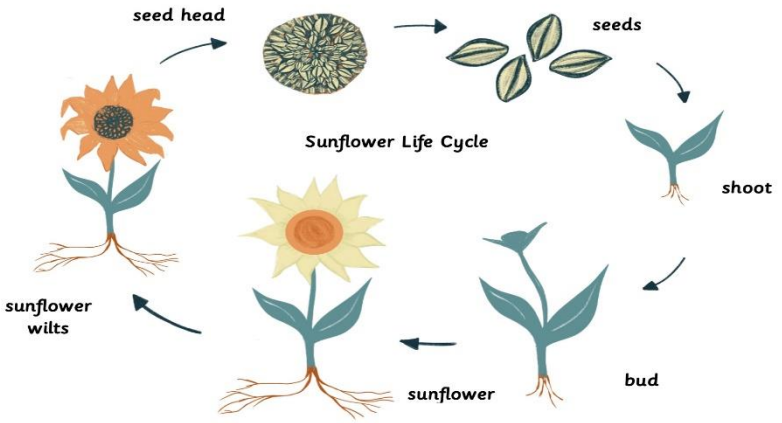
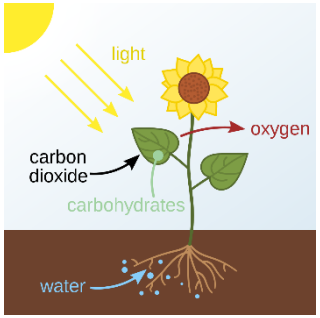
Lifecycle of a sunflower



Photosynthesis



Photosynthesis uses sunlight to make food for the plant.

Photosynthesis happens in the leaves of a plant.

The leaves contain chlorophyl, this and light energy help convert carbon dioxide and water into oxygen and glucose- which is food for the plant.

Seed Dispersal

By animals

By wind

By explosion

By water

Pollination





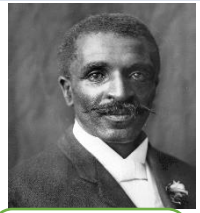


Pollination happens when an insect carries pollen from the male part of the plant (stamen) to the female part (pistil).

This allows the new plant to make new seeds and fruit.

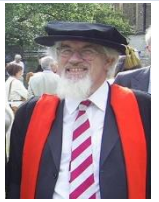
Famous botanists.

Carl Linnaeus



George Washington Carver

Alexander Von Humboldt



Oliver Rackham

Dr Angie Burnett.