



Runnymede St. Edwards Primary Catholic School - Knowledge Organiser

Subject: Science

Plants

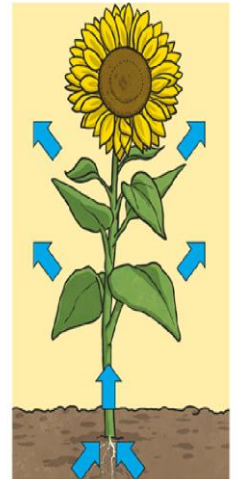
Year: 3

Term: Summer

	Key Knowledge and Vocabulary
roots	Anchor the plant in the ground and absorb water and nutrients from the soil
stem	Transports water and nutrients to different parts of the plant
leaves	The place where photosynthesis takes place
petal	The separate leaves that form the outside part of a flower head and usually attract insects
flower	The part of a plant which allows it to reproduce
seed	Allows a plant to reproduce
pollen	The product of a male part of a plant which allows it to produce seeds
nutrient	A substance that provides nourishment for growth (all living things need nutrition)
seed dispersal	The movement or transport of seeds away from the parent plant
pollination	The process by which pollen is transferred to the female parts of the plant which means the plants can make seeds and reproduce
photosynthesis	The process by which green plants use the sun's energy from sunlight along with water and carbon dioxide to produce their own food in the form of glucose (sugar)

How Water Moves through a Plant

1. The **roots** absorb water from the soil.
2. The **stem** transports water to the **leaves**.
3. Water **evaporates** from the **leaves**.
4. This **evaporation** causes more water to be sucked up the **stem**.



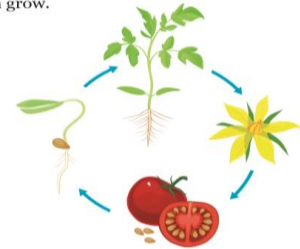
The water is sucked up the **stem** like water being sucked up through a straw.

What is the lifecycle of a flowering plant?

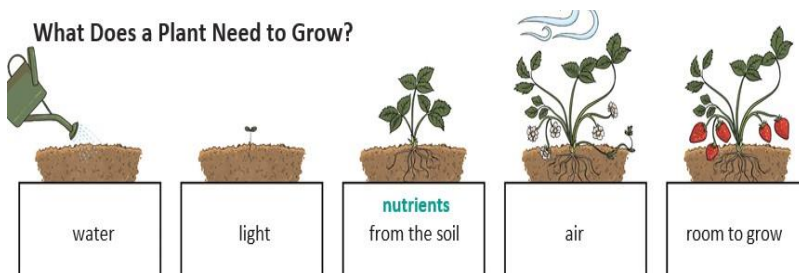
Flowering plants have lifecycles like all other living things — including us!

A flowering plant will begin life as a seed — the roots and shoot will then begin to grow. We call this germination. The plant will then grow and produce flowers. Pollination happens next so that seeds can be produced and fertilised.

The plant will then disperse the seeds so that new plants can grow.



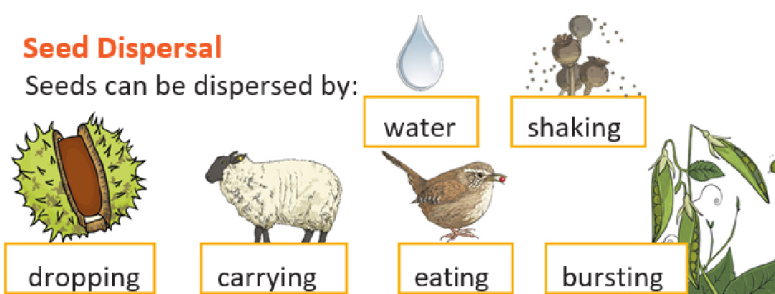
What Does a Plant Need to Grow?



Different plants vary in how much of these things they need. For example, cacti can survive in areas with little water, whereas water lilies need to live in water.

Seed Dispersal

Seeds can be dispersed by:



What is inside a flower?

Most flowering plants have flowers which have both male and female parts. In this picture, the anther and stamen are male parts and the pistil, ovary and ovule are female parts. The petals help attract insects who move the pollen from this flower to a different flower.

