

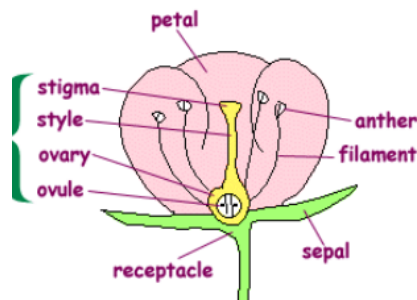


Knowledge Organiser

Science—Plants Year 3

Parts of a plant

- Stigma - takes in the pollen
- Style - connects the stigma and the ovary
- Ovary - contains the egg
- Ovule - a small egg
- Petal - thin coloured parts of the flower
- Sepal - part of the flower that protects the bud
- Anther - part of the stamen that produces and releases pollen
- Filament - holds the anther
- Roots - help anchor the plant into the soil and absorb water and nutrients.



Key Vocabulary

Transportation	The process that involves the movement of water and necessary nutrients to all parts of the plant for its survival.
Nutrients	Substances that help plants and animals to grow.
Reproduction	A biological process by which an organism reproduces an offspring that is biologically similar to
Seed formation	A seed is formed when the it has been
Seed dispersal	When seeds are spread and scattered to different areas.
Pollination	Fertilising a plant with pollen, often done by insects.

What do plants need to grow?

Plants need the following things to survive and grow:

- Air
- Water
- Sunlight
- Nutrients from the soil
- Room to grow
- A suitable temperature.



These vary depending on the type of plant. Plants which grow in a desert will need less water than those which grow in Britain.

Water transportation - Water is absorbed by the roots from the soil. It is then transported to the stem and then the rest of the plant.

Life cycle - Flowers create seeds for new plants to grow. Pollen from the anther of another plant is transferred to the stigma by insects (mainly bees). This is pollination. The pollen travels down the stigma to the ovary and seeds are formed, this is fertilisation. Seeds are then dispersed so that germination can begin again.

What I can do at home

Learn	Describe the functions of different parts of flowering plants for example the roots, stem/trunk, leaves and flowers.
Research	Plants need air, water, sunlight, nutrients from the soil, room to grow and a suitable temperature. So, can plants survive without

Communicate

Talk to an adult at home about the things below. You don't need to record this.

Plants can be used to help people feel calm and at peace. There are some plants which are better at this than others.

Why do you think this is the case?