

### Plants and what they need to live and grow

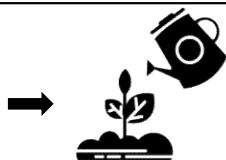


We have visited the Buckden allotment and seen what plants need to survive.

How is the allotment an example of sustainable gardening?



Water



Plants need water to survive, some plants need more than others, like cactus plants.

Sunlight



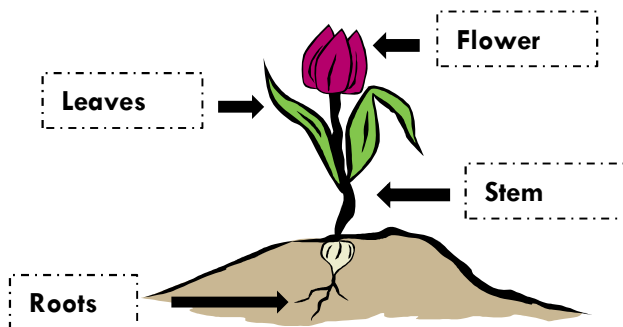
Plants need sunlight, without this they cannot photosynthesise to produce energy.

Nutrients



Plants need nutrients to grow strong. They get these from their roots in the soil.

### Identifying parts of a plant



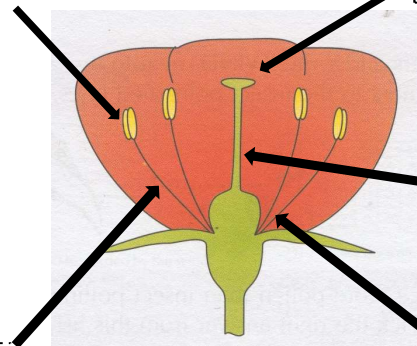
Anther (with Pollen)

Stigma

Filament

Style

Ovary



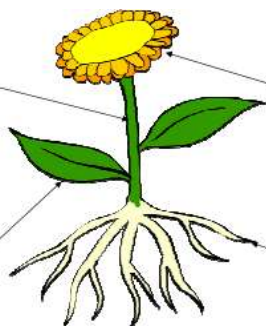
### Purpose of each part of the plant

#### Stem or trunk

The stem of a plant has two main functions. It allows water and nutrients drawn up from the roots to be used by the rest of the plant. In many plants, the stem also helps it to stand up straight, helping the leaves and flowers to function better.

#### Leaves

The leaves of a plant capture the energy from sunlight and use it to transform water and carbon dioxide (a gas which is found in air) into simple sugars, which are used as food by the plant. This process is called photosynthesis.



#### Flower

The function of the flower is to allow the plant to reproduce, or create more plants. To reproduce, the flower must be pollinated - pollen needs to move from one flower to another. Many flowers are attractive to insects and use them for pollination.

#### Roots

The roots have two main functions. They hold the plant in the ground and prevent it from blowing away or being pulled out by animals. They also draw up water and nutrients from the soil so they can be used by the plant.

Do all plants look the same as this example?

Can a plant live without needing any leaves?

Why do some plants produce seeds?

### Vocabulary Tier 2

Pollen  
Leaves  
Roots  
Seeds  
Flower  
Gardening



### Vocabulary Tier 3

Wind Pollution  
Stigma, Style and Ovary  
Anther and Filament  
Photosynthesis  
Pollination  
Seed Formation