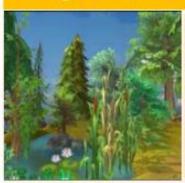
What you should already know...



- Plants are a large group of living things that use sunlight to make their own food
- There are many, many different kinds of plants, including trees, vines and grasses
- Plants have lots of different parts for example stems, leaves and roots
- Some trees lose their leaves in the winter (deciduous). Some keep their leaves all through the year (evergreen)
- Some plants are 'flowering plants' they grow flowers on them

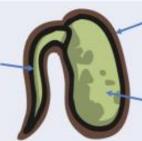
How do seeds grow?

Every single seed has the beginnings of a new plant inside it, along with a little store of food to help it grow.

When the conditions are right, the seed soaks up water and swells, and the tiny new plant bursts out of its shell. This is called **germination**.

Embryo:

The tiny root and shoot which will grow into the adult plant



Seed Coat:

A tough outer covering.

Food Store:

A Store of food for the young plant to use until it has grown enough to make its own food.

What do plants need to grow well?

Water



Like animals and humans, plants need water to survive. Plants are able to get water from the soil through their roots. They can also catch

Sunlight



Plants need lots of sunlight to help them grow. Plants do not eat food. Instead they use sunlight to make their own food. Too little light will leave plants weak.

Temperature

Plants need the

grow properly.

temperature to be

If it is too hot, they

it is too cold, they

may burn and wilt. If

may freeze and die.

fewer plants at the

poles and the

deserts.

This is why there are

just right for them to

water on their leaves.



Nutrition



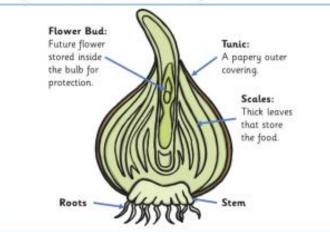
Plants take nutrients from the soil.

	Key Vocab
Flower	Part of a plant that attracts insects and birds
Petal	Petals are part of a flowering plant which attract insects such as bees
Leaf	Part of a plant which absorbs sunlight which is used by the plant to make food
Root	Part of a plant which takes in water and nutrients from the soil
Stem	Part of a plant which helps support it and keep it upright
Seed	The part of a flowering plant that can grow into a new plant
Bulb	Bulbs are underground masses of food storage from which plants grow
Absorb	To take in or swallow up
Sunlight	Light from the sun is a form of energy which helps plants to grow
Germination	The stage of plant growth where the seeds begins to sprout
Sprout	When a plant sprouts, it grows new shoots
Seed dispersal	Seed dispersal is when the seeds move away from the plant. They can be moved by the wind or animals

Seeds and bulbs

Some plants grow first from a seed, and then develop a bulb that helps them to grow back year after year.

A bulb lets the plant rest underground over the winter when it is too cold, then grow back later in the year when conditions are right.



Some common plants which grow from bulbs...

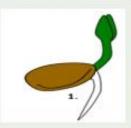


Life cycle of a plant

Like all living things, plants have a life cycle. They live, reproduce and then die.

1. Germination

The seed begins to grow when the conditions are right. This is called germination. It puts out roots and shoots and starts to turn into a young plant.



2. Growth

The young plant produces leaves in order to get energy from the Sun. It will need a lot of energy in the next stage of its life cycle.



3. Flowering

The plant creates flowers to help it to reproduce. The flower needs pollen from another flower in order to do this. This is called pollination. Some flowering plants attract insects to help them.



4. Seed

When a flower has been pollinated, it produces seeds, which are capable of growing into new plants. Sometimes the seeds have a fruit around them.





London's Royal Botanic Gardens, Kew, has a multi-record-breaking flower.

The titan arum is a supersized flower from the rainforests of Sumatra that can stand taller than 3 m off the ground, making it the tallest flower in the world. It also hold the record for 'Smelliest Flower'. The bloom releases a powerful stench likened to rotting flesh. It does this to attract flies in the dense jungle where it lives!

