The Plant Detective





In this picture of a plant: the flowerhead. the stem. leaves, and the roots.

food plants need sunlight, water and a gas called carbon



dioxide which they get from the air. This process is called photosynthesis. During

contain a chemical pigment (or dye) called chlorophyll. Chlorophyll can also take in the gas carbon dioxide from called stomata.

These are the roots. Roots take up water and nutrients from the soil. They also spread out in the soil and anchor the plant in one place.

Some plants store food in their roots. This helps them to produce new roots



and shoots. These root 'stores' have names like tap root, tubers, corms and bulbs.

> NORE ON THE NEXT PAGE!

The **stem** supports the flower and the leaves, holding them up to

the sunlight. Water travels from the roots through the stem to all the other parts of the plant.

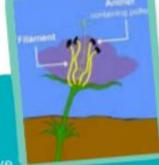


Some plants have special ways of protecting themselves from being eaten by animals. Thistles and roses have thorns on their stems. Many plants have developed special features to help them survive in their own particular home or habitat. These special features also help plants to compete with other species for water, sunlight and air.

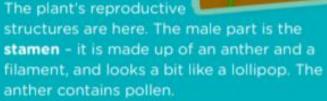


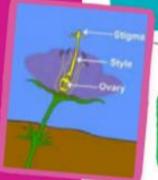


This is what the flower centre looks like.



This is the female part of the flower, called the carpel. It is made up of a stigma, a style and an ovary. When 'male' pollen lands on the 'female' stigma pollination occurs. Sometime later a seed is produced.





NORE ON THE NEXT PAGE!



9

Petals are usually brightly coloured and often scented. Bright colours and scent help to attract insects.

When insects feed on the nectar they are 'dusted' with **pollen** which they carry to the next flower they visit.



When seeds are dispersed (or moved away) from their parent plant the can start to **germinate** and grow, but only if water and air are present.

