

1.2 Plant parts

We are going to:

- Say what the leaf, flower, stem and root of a plant do.
- Make a model of a plant.
- Draw some plant roots.
- Do some research about leaves.
- Stay safe while doing practical work.

Getting started

What do the parts of the plant do?

Roots: absorb water, hold the plant in place.

Stem: holds the plant up, transport water around the plant.

Leaves: make food for the plant.

Flower: makes seeds.

The plant has one main stem. Why does the plant have many roots, leaves and flowers?

The plant needs only one stem to hold up the many leaves which are needed to make lots of food for the plant. The plant makes lots of flowers so that there will be many seeds. The plant needs lots of roots to hold it down and to find water in the soil.



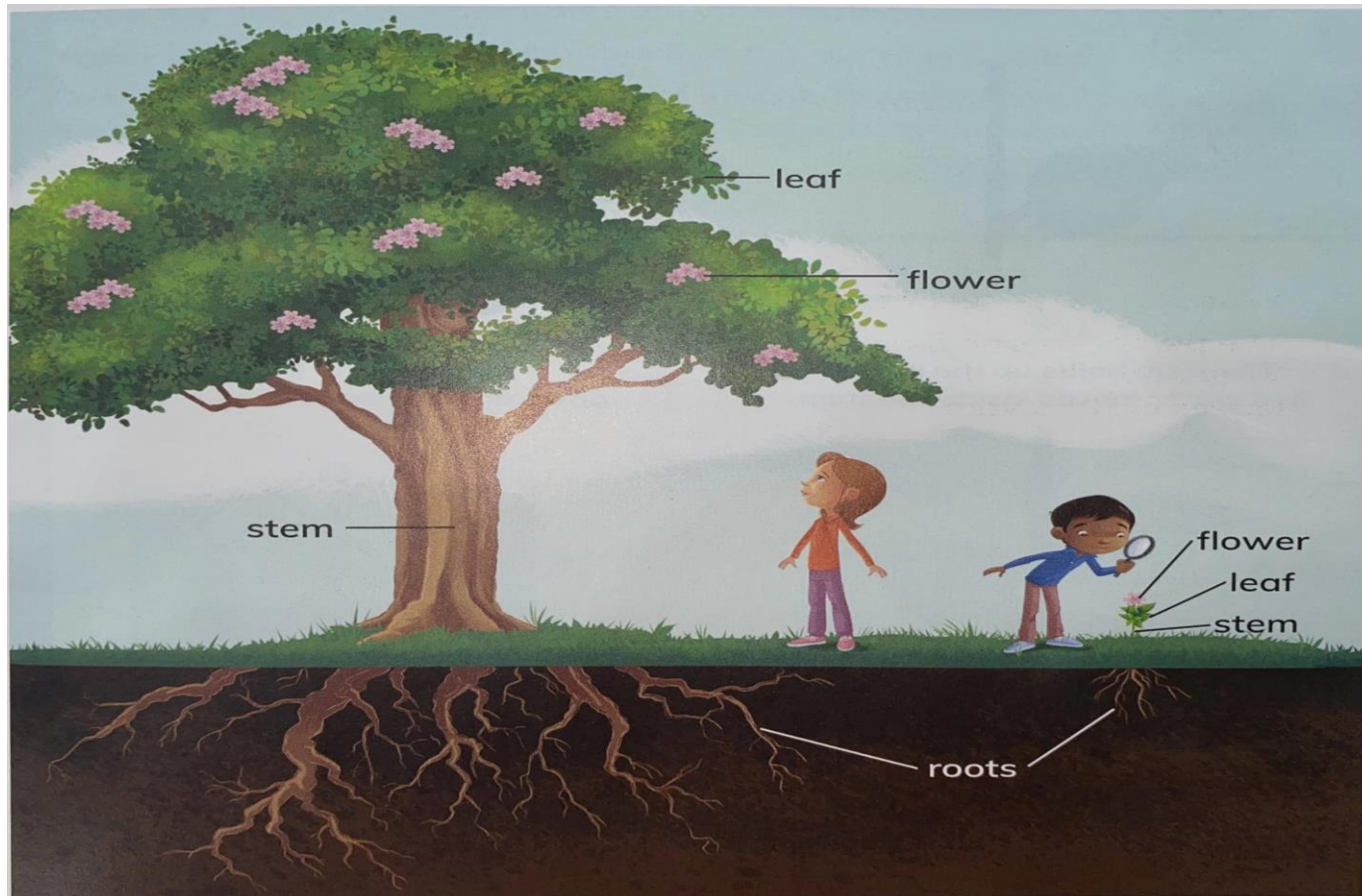
absorb

allergic

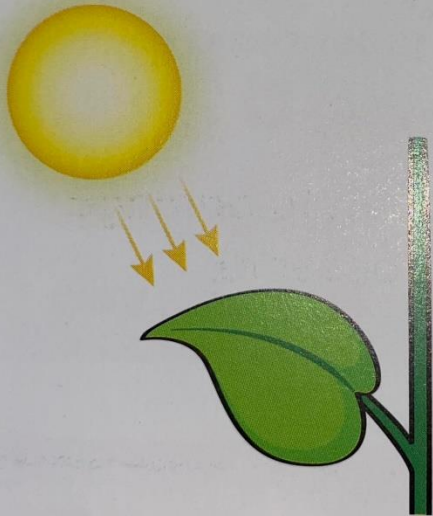
transported

Roots, stems, leaves and flowers

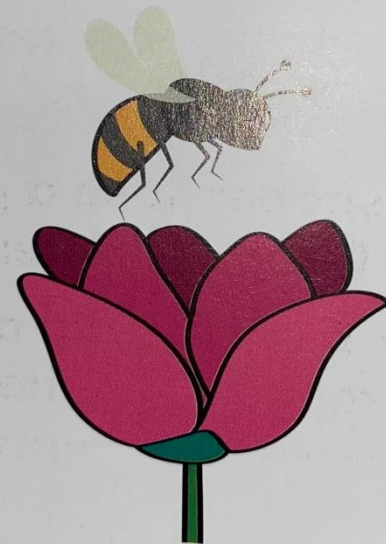
Some plants are very small and some are very big. Most plants begin life as seeds which then grow.



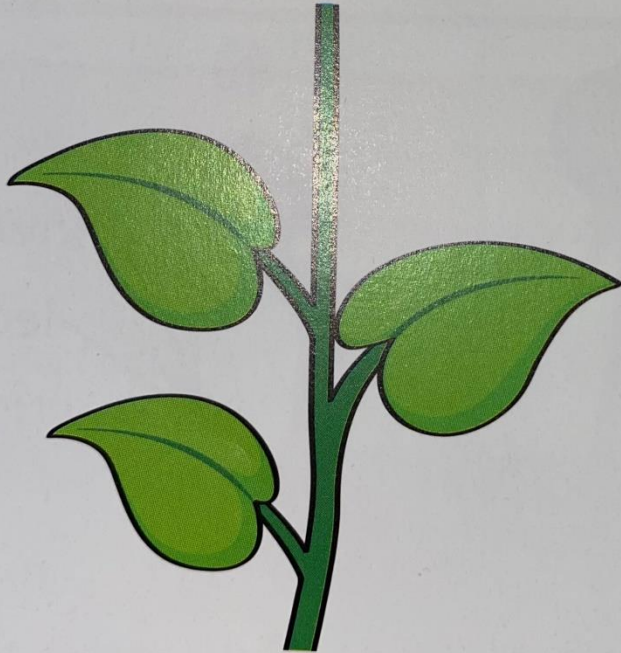
In sunlight each
leaf makes food



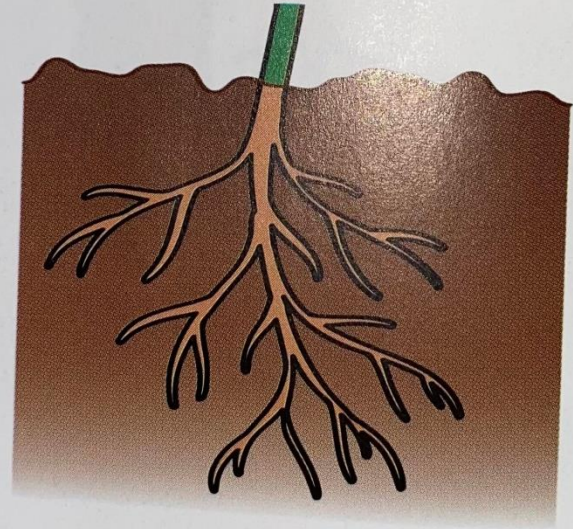
Seeds are made
by the flower



The stem holds up the plants
and water moves inside the stem



The roots hold the plant
down and get water from the soil



Plant part

roots

flower

stem

leaf

Important job

To make food for the plant

To hold the plant down and absorb water from the soil

To make seeds

To hold the plant parts up and transport water



All parts of the plant need water.

Without water the plant will die.

The roots hold the plant down. They also **absorb** water by taking it in from the soil. The water is then moved or **transported** up the stem to all parts of the plant.

Some people are **allergic** to plant parts.

We can eat parts of some plants

Some plant parts are safe for people to eat.

Some parts can be poisonous. The safe leaves, roots, stems and fruit are very good for you. We only ever eat safe plant parts.

Never eat parts of wild plants you find.

Always check that plants parts are safe

Which plant parts here are safe to eat?

There are many plant parts in the picture that are safe to eat, including

Fruit: apple, pear, grape, orange, lemon, strawberry, cherry, pineapple, banana, tomato, melon, pomegranate, red currant, blackcurrant, capsicum (red and yellow peppers), aubergine.

Leaves: lettuce, cabbage.

Seeds: beans, corn.

Roots: carrots, onions.

Stem: artichoke, asparagus



Question:

Do you know a plant or plant part that is dangerous to eat?

Potato leaves, cherry tree leaves, oleander leaves, rubber plant sap, sago palm leaves.



Challenge

What would happen if a plant did not have all these plant parts: roots, flower, stem, leaf ?

Without **leaves** .. the plant cannot make food/sugar.

Without **a stem** .. the plant will not stand up.

Without **flowers** .. the plant will not make seeds.

Without **roots** .. the plant will not be held in place or absorb water from the soil.

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