

1.3 plants and light

We are going to:

- learn that plants need light and the right conditions to be healthy
- learn that baby plants grow from seeds
- talk about the importance of a fair test
- look for patterns in results
- make a conclusion from results
- make predictions and see if they are right.

Getting started

The young plants in the previous slide have started growing .

Which plant is oldest ?

The tallest plant on the right is the oldest

Which is youngest?

The shortest plant on the left is the youngest

What do these plants need to help them grow and be healthy ?

These plants need warmth, soil, light and water to help them grow and be healthy

Plants need the right conditions

Plants need the right **amount** of :

Warmth

Water

Light

Air



A healthy plant has strong roots, stems and leaves.

An unhealthy plant may have yellow leaves.

The plant may **wilt**.



a healthy plant

leaves are wilting
and yellow

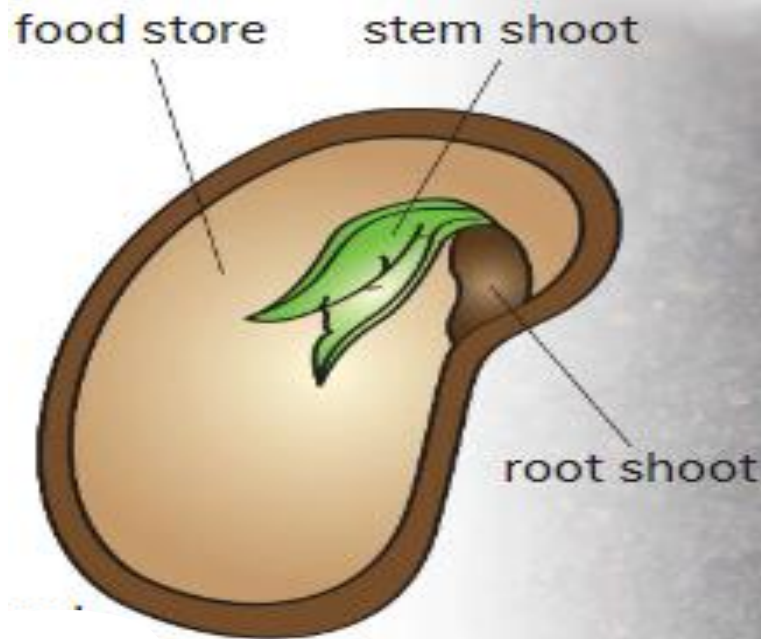


an unhealthy plant

What do baby plant need ?

The flowers of a plant make seeds. Inside each seed is a very small root **shoot** and a very small stem shoot, both ready to grow. The seed also has a store of food for the baby plant to start growing.

We call this **germination**.



The root shoot grows first to get water. Then the stem shoot grows.



Questions

1) **The root shoot always grows downward . Why ?**

The root shoot always grows downwards so it can find water and become anchored in the soil.

2) **The stem shoot always grows upward. Why is this ?**

The stem shoot always grows upwards so that it will find light.

3) **what do you think a plant needs to grow ?**

A plant needs light, soil, water and warmth to grow.

4) **could a plant live without light ?**

A plant could not live for long without light: all plants need light to make their own food.

Why do seedling stem bend ?



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