



What Plants Need



What we already know:

- ✓ Which things are living and which are not.
- ✓ A variety of common wild and garden plants, including deciduous and evergreen trees and how to identify them.
- ✓ The structure of common flowering plants, including trees (including leaves, flowers, fruits, roots, bulbs, seeds, stem, trunks and branches)
- ✓ Seeds and bulbs grow into mature plants
- ✓ Plants and animals depend on each other to survive.

We are learning to:

- Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant





Roby Park Primary School Year 3

Biology

What Plants Need



What should I know already?

- ✓ Which things are living and which are not.
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Key Vocabulary

Transportation - The movement of water through a plant from root to leaf.

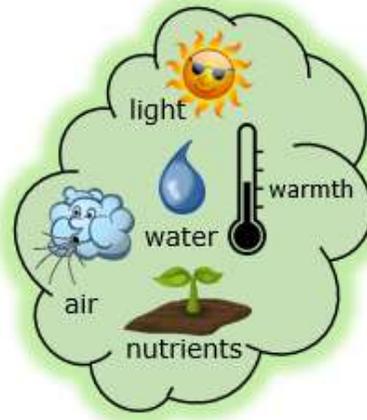
Nutrient - A substance that provides nourishment for growth.

Pollination - the process by which pollen is transferred to the female parts of the plant which means the plants can make seeds and reproduce.

Fertilisation - when pollen joins with the egg or ovule, a new seed is created.

Seed dispersal - the movement or transport of seeds away from the parent plant.

What does a plant need to grow?



Smaller plants find it hard to survive when larger plants take up space. They block out sunlight and take nutrients and water from the soil.

The Power of Five

Soil is a mixture of tiny particles of rock, dead plants and animals, air and water. Different soils have different properties depending on their composition.

Sandy soil is pale coloured and has large particles. These create lots of small air gaps. Water drains through them easily so it usually feels dry.

Clay soil is usually sticky and has small particles. They contain very few air gaps and water does not drain through it easily.

Chalky soil is a light brown soil. Water drains through it quickly.

Peat does not contain any rock particles. It's made from very old decayed plants and is dark, crumbly and rich in nutrients.



Investigate!

Discuss what plants need in order to grow Explore the school grounds in groups and find places where plants are struggling to grow and others where they are flourishing.

Investigate what happens to a plant when it isn't watered investigations to find out how much grass seed is needed to grow the perfect patch of grass.





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3Ws

What does a plant not need to grow?

What part of the flower takes nutrients and water to different parts of the plant?

What does a plant collect from the soil?

3 2 1

Name 3 types of soil

.....

List 2 types of plant

.....

List 1 thing that ALL seeds need to grow.

.....



Name 5 things a plant needs to grow.



VOCABULARY UNSCRAMBLE

b a b r o s

Soak up or take in

o l i s

mixture of tiny particles of rock, dead plants and animals, air and water.

t i n e n t u r

A substance that provides nourishment for growth.

Speedy Pencil. Write as much as you can remember in 5 minutes



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