

Year 3/4 Science Physics: Plants

What we already know

The children will be building their knowledge of plants from Year 2. They may already know the basic parts of a flowering plant. Some children may know that plants need water and sunlight to grow.

Vocabulary

Tier 1

Flower, stem, roots, leaves,

Tier 2

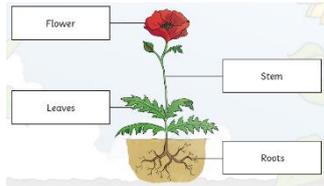
Nutrient, evaporation, pollination, seed dispersal

Tier 3

Petal, stamen, sepal, investigation, transportation

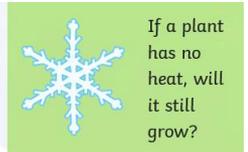
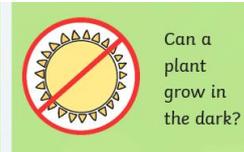
1. Parts of a plant

- To identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers by labelling the parts of a plant.
- I can name the different parts of flowering plants and explain their jobs.
- Flower – to attract insects to pollinate the plant so that it can make seeds.
- Leaves – this is where the plants make their food using sunlight and carbon dioxide.
- Stem – the main structure of the plant that holds it up.
- Roots – anchors the plant into the ground and absorbs water and nutrients that the plant needs.



2. What do plants need to grow?

- To explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) by investigating what plants need to grow well.
- I can set up an investigation to find out what plants need to grow well.

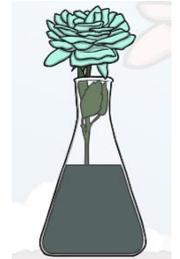


3. What have we found?

- To record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables by observing and recording plant growth.
- I can record my observations. To report on findings from enquiries, including oral and written explanations and presentations of results and conclusions by presenting findings to the class.
- I can present the results of my investigation using scientific language.

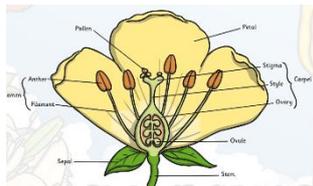
4. Moving Water

- To investigate the way in which water is transported within plants by observing the transport of food colouring through a flower stem.
- I can investigate how water is transported in plants.



5. Fantastic Flowers

- To explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal by understanding pollination and fertilisation.
- I can name the different parts of a flower and explain their role in pollination and fertilisation.



6. Life Cycle

- Life Cycle To explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal by ordering and describing the stages of the life cycle of a flowering plant.
- I can understand and order the stages of the life cycle of a flowering plant.

