

Year 3 Plants

Science Knowledge Organiser

Knowledge
Skills
Vocabulary



Knowledge Progression

Can I identify and describe the function of the roots?

Can I investigate the ways in which water is transported within plants?

Can I identify and describe the function of the stem?

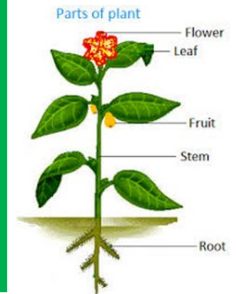
Can I identify and describe the function of the leaves?

Can I explore the requirements of plants for life and growth (air, light, water, nutrients from soil)?

Can I identify and describe the function of the flower?

Curriculum Coverage

- Identify and describe the functions of different parts of plants; roots, stem, leaves and flowers.
- Explore the requirements of plants for life and growth (air, light, nutrients from soil and room to grow) and how they vary from plant to plant.
- Investigate the ways in which water is transported within plants.
- Explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.



Skills Progression

- To be able to set up a simple practical enquiry.
- To be able to make systematic and careful observations.
- To be able to use results to draw simple conclusions.
- To be able to gather and record data.
- To be able to use straightforward scientific evidence to answer questions or to support their findings.

Scientific vocabulary

Trees - deciduous, evergreen, ash, birch, beech, rowan, common lime, oak, sweet chestnut, horse chestnut, apple, willow, sycamore, fir, pine, holly, etc;
Wild flowering plants - cleavers, coltsfoot, daisy, dandelion, garlic mustard, mallow, mugwort, plantain, red clover, self heal, shepherd's purse, sorrel, spear thistle, white campion, white deadnettle and yarrow; **Garden plants** - crocus, daffodil, bluebells, etc; **Parts of plants** - roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs; **Parts of a flower** - petal, stamen (anther + filament), carpel (stigma + style + ovary + ovule); **Processes** - pollination, fertilisation, germination.

Scientific enquiry

What are the functions of the different parts of flowering plants? What do different plants need to grow? How is water transported within plants? How do flowers help in the life cycle of flowering plants? What is pollination? What is fertilisation? What is germination? What is dispersal?

