



Linked learning theme: Green fingers

Summer term, Year 3

Science – Plants

Prior Knowledge

In Y1 and 2, children learnt about the parts of the plant and the needs of a plant. They also observed plant growth over time.

Core knowledge

- Plants have roots, a stem / trunk, leaves and flowers.
- Roots absorb water and nutrients from the soil.
- The stem supports the plant above ground and carries water and minerals to the leaves.
- The leaves collect energy from the Sun and make food for the plant through photosynthesis.
- Flowers make seeds to grow new plants.
- Flowers need to be pollinated in order for seeds to form.
- Seeds are dispersed and then germinate into new plants.
- Plants need air, light, water, nutrients and room to grow. The required amount of these varies from plant to plant.

Key skills

- Ask relevant questions about plants and how they grow.
- Make systematic and careful observations about what plants need to grow by setting up a fair test to compare different variables.
- Investigate and observe the functions of the different plant parts including the way in which water is transported.
- Record findings using labelled diagrams of the plants, using simple scientific language.
- Conclude and explain findings from observations and investigations.

Vocabulary

| | | | |
|--------|-----------|-------------|----------------|
| plant | flower | reproduce | carbon dioxide |
| root | seed | water | observe |
| leaves | pollinate | nutrients | record |
| stem | disperse | germination | conclusion |

Learning outcomes

- I can identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
- I can 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.
- I can investigate the way in which water is transported within plants.
- I know the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.
- I can set up simple practical enquiries, comparative and fair tests.
- I can make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment.

