



# HAWTHORN PARK COMMUNITY PRIMARY SCHOOL

Where Care and Learning Count

Headteacher: Mrs Jeni Houghton



Science Knowledge Organiser

Area: Plants

Year Group: 2

### Statutory guidance:

#### By the end of this unit pupils will be able to:

- Observe and describe how seeds and bulbs grow into mature plants
- Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy

### Notes and guidance (non-statutory)

Pupils should use the local environment throughout the year to observe how different plants grow. Pupils should be introduced to the requirements of plants for germination, growth and survival, as well as to the processes of reproduction and growth in plants.

**Note:** Seeds and bulbs need water to grow but most do not need light; seeds and bulbs have a store of food inside them.

Pupils might work scientifically by: observing and recording, with some accuracy, the growth of a variety of plants as they change over time from a seed or bulb, or observing similar plants at different stages of growth; setting up a comparative test to show that plants need light and water to stay healthy.

### Key Vocabulary

1. germination	When the conditions are right, the seed soaks up water and swells, and the tiny new plant bursts out of its shell. This is called germination.
2. sprout	When a plant sprouts, it grows new shoots.
3. shoot	A shoot grows upwards from the seed or plant to find sunlight.
4. seed dispersal	Seed dispersal is when the seeds move away from the parent plant. They can be moved by the wind or animals.
5. sunlight	All plants need light from the sun to grow well. Some plants need lots of sunlight. Some plants only need a little.
6. water	All plants need water to grow. Without water, seeds and bulbs will not germinate.
7. temperature	Temperature is how warm or cold something or somewhere is. Some plants like cooler temperatures and some prefer warmer ones.
8. nutrition	Food or nourishment. Plants make their own food in their leaves using sunlight.

### Key Assessment Questions

- Can they describe what plants need to survive?
- Can they observe and describe how seeds and bulbs grow into mature plants?
- Can they investigate and describe the impact of removing light, soil or water from a growing or germinating plant. Can they observe changes over time?
- Can they suggest how to find things out?
- Can they use prompts to find things out?

#### Greater Depth:

- Can they describe what plants need to survive and link it to where they are found?
- Can they explain that plants grow and reproduce in different ways?



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