

Careers linked to this topic
Horticultural Product
Management, Plant Biologist,
Plant Pathologist

Lesson 1 Know the difference between seeds and bulbs.

What is the difference between a seed and a bulb?

What seeds and bulbs can you think of? Dissecting seeds and bulbs to compare insides. (identify and classify, observe and record)

Compare, bulb, seed, growth, plant

Lesson 2 Design an experiment to find out what plants need to grow. Observe and record the growth of plants over time.

What do plants need to grow healthily and how do they change as they grow?

Plant seeds and bulbs in different environments; take measurements / make observations at start and each week across half term (asking questions, performing simple test)

TAPS Assessment – Comparing plant growth in different conditions

Investigate, experiment, method, predict, control, crop, thrive, healthy, insulate, manure

What do plants need and how do they grow healthily?

Plants



Year 2
Spring 2

What Plants Need to Grow

Plants need **water** to survive. Plants get water through their roots.

Plants need the right **temperature** to grow.

Plants need **sunlight** to help them grow and make their own food.

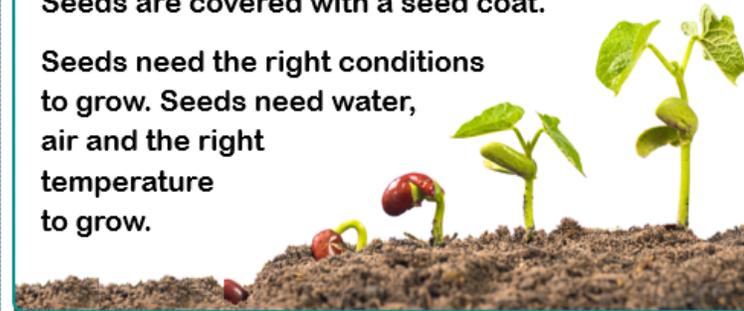
Plants need **room** to grow. Plants need time to grow. It can take days, months or even years for them to grow.



Life Cycle of a Plant

A plant **germinates** when it starts to grow. Inside a seed/bulb is the baby plant. Seeds are covered with a seed coat.

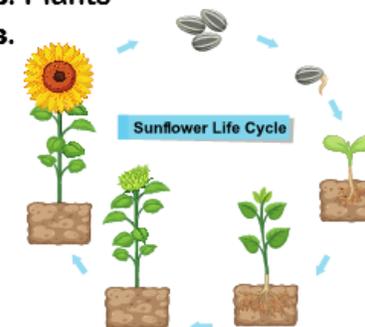
Seeds need the right conditions to grow. Seeds need water, air and the right temperature to grow.



Life Cycle of a Plant

Plants begin life as **seeds or bulbs**. They need soil, air and water to grow. Plants grow into young plants called **seedlings**. Plants grow **flowers and fruits**.

These produce seeds. When the plant is pollinated, the seeds find their soil. The process starts again!



Lesson 3 Describe what plants need to grow and stay healthy.

How do plants use water, sunlight and temperature to make their own food?

Plant in sunlight with water and paper over leaves – observe leaves over time (observe and record)

Carbon dioxide, photosynthesis, oxygen, energy, glucose

Lesson 4 Describe the life cycle of a plant.

What are the different stages in a plant's life cycle?

Draw plant life cycles; observe and record plant findings (observe and record)

TAPS Focused Assessment – Observing seeds and plants

Pollination, germination, life cycle, reproduction, seedling

Lesson 5 Understand that plants adapt to suit their environment.

How do plants adapt in relation to their environment?

Sorting plants into natural habitats; observe and record plant findings (identify and classify; research from secondary sources)

Forest, desert, survive, adapt, condition