



Topic: Plants

Year 2

Strand: Biology

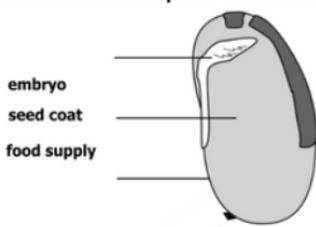
What I should know by the end of this unit:

- How seeds and bulbs grow into mature plants
- That plants need water, light and a suitable temperature to grow and stay healthy

Key knowledge

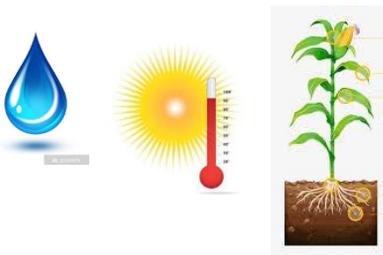
How do seeds grow?

- Every single seed has the beginnings of a new plant inside it, along with a little store of food to help it grow.
- 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.



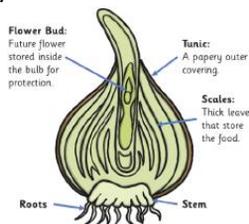
What do plants need to grow well?

- Water – like animals, plants need water to survive. Plants are able to get water from the soil through their roots. They can also catch water on their leaves.
- Sunlight – plants need sunlight to help them grow. Plants do not eat food. Instead they use sunlight to make their own food. Too little light will leave plants weak.
- Temperature – plants need the temperature to be just right for them to grow properly. If it is too hot, they may burn and die. If it is too cold, they may freeze and die. This is why there are fewer plants at the poles and in the deserts.
- Nutrition – plants take nutrients from the soil.



Seeds and bulbs

- Some plants grow from a seed and some from a bulb.
- A bulb helps them grow back year after year.
- A bulb lets the plant rest underground over the winter when it is too cold, then grow back later in the year when conditions are right.



Key Vocabulary

Spelling	definition
absorb	To take in or swallow up
bulb	An underground mass of food storage from which plants grow
flower	Part of a plant that attracts insects and birds
germination	The stage of plant growth where the seeds begin to sprout
leaf	Part of a plant which absorbs sunlight which is used by a plant to make food
petal	Petals are part of the flower which attract insects such as bees
root	Part of a plant which takes in water and nutrients from the soil. It anchors the plant in place.
seed	The part of a flowering plant that can grow into a new plant
seed dispersal	This is when the seeds move away from the plant. They can be moved by the wind or animals.
sprout	When a plant grows new shoots
stem	Part of a plant which supports it and keeps it upright.
sunlight	Light from the sun is a form of energy which helps plants to grow

Life cycle of a plant

Germination 	The seed begins to grow when the conditions are right. This is called germination. It puts out roots and shoots and starts to turn into a young plant.
Growth 	The young plant produces leaves in order to get energy from the sun. It will need a lot of energy in the next stage of its life cycle.
Flowering 	The plant creates flowers to help it reproduce. The flower needs pollen from another flower in order to do this. This is called pollination. Some flowers attract insects to help them
seed 	When a flower has been pollinated, it produces seeds which are able to grow into new plants.



# Science: William Martin & St James



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Which three process do plants do?	Start of unit	End of unit
move		
grow		
walk		
reproduce		

What is happening in this picture?	Start of unit	End of unit
		
The plant has fallen over		
The plant is growing towards the light		
The roots are not strong enough to keep the plant straight.		
The flower is looking out of the window		

Which 3 things does a plant need to grow well?	Start of unit	End of unit
Water, exercise, wind		
Soil, water, wind		
Soil, sunlight, water		
Water, darkness, soil		

4 identical seeds have been planted at the same time. Which of them will produce the tallest and healthiest plant?	Start of unit	End of unit
The seed that has been watered and kept in the cupboard		
The seeds that has been watered and kept in the fridge		
The seed that has been placed on a wet cotton ball		
The seed that has been watered and placed on a windowsill		