



This Science unit follows on from previous studies of 'Plants' in Year 1. This unit will deepen the children's understanding enabling them to build on their knowledge that plants need water, light and a suitable temperature to grow and stay healthy. They will be learning key vocabulary which they will use to explain the function of the different parts of plants and how this contributes towards healthy growth. The skills of observing, comparing, investigation and research will be practised and will enable the children to access the key knowledge.

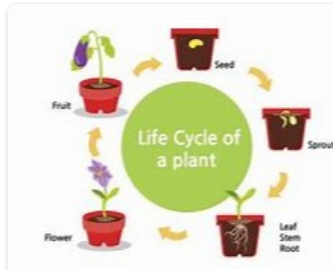
Key knowledge

Looking at a selection of seeds and bulbs the children will identify the difference between the two. They will be able to identify and explain the similarities and differences between seeds and bulbs..



Using their knowledge that seeds need water, air, light and warmth the children will set up an investigation by planting three separate seeds. For each seed they will take away a different condition predict the outcome and observe over time how this would affect the growth of plants.

The children will use their previous learning on the human life cycle to understand that a plant has a life cycle too. They will use their new vocabulary to explain the process and sequence.



Key Vocabulary

Soil— the upper layer of earth in which plants grow

Bulbs — are planted by digging holes in the ground and most of the plant is already inside.

Seeds — are usually sown (scattered) and its growth starts inside a seed coat which stores food until it can produce food on its own.

Conditions— what is needed for healthy growth

Germination— when the roots first starts to grow

Dispersal — how flowers spread their seeds

Nutrients — the ability to take in and use food

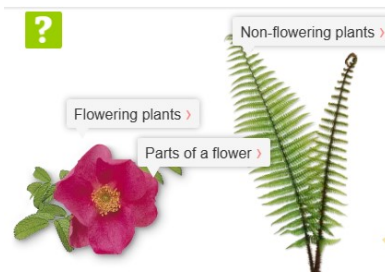
Roots—absorb water and minerals from the soil

Minerals—found naturally in the soil

Makes food for the plant from CO ₂ and sunlight.	leaf
They absorb minerals and water from the soil.	roots
It transports water around the plant.	stem
They attract insects to the flower.	petal

The children will explain the function that each part of the plant has which contributes towards its healthy growth. They will be encouraged to use their key vocabulary in their explanations.

Through research the children will find out the similarities and differences between flowering and non-flowering plants.



Key Questions

What do plants need to grow and stay healthy?

Why do plants need these things to grow and stay healthy?

Can you describe how plants grow from seeds to mature plants?