

Plants

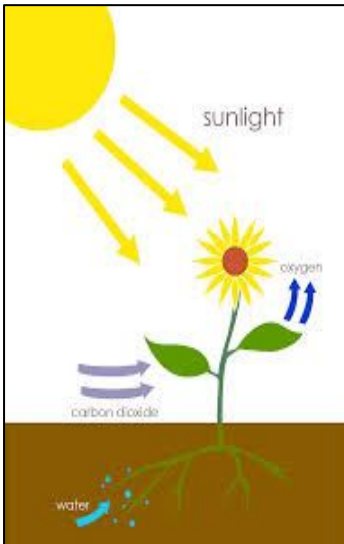
Significant Scientist

Manoj Majee



Manoj Majee is a scientist from India who studies seeds and plants. He watches how seeds grow into plants and how they reproduce. His work helps us understand plant growth and why caring for plants is important for food and the environment.

SEED GERMINATION



Key Knowledge

Seeds and bulbs grow into mature plants.

Plants need light, water and a suitable temperature in order to grow and stay healthy.

There are many different types of seeds that plants grow from. These seeds also provide food for animals including humans. Seeds come from plants.

Seeds look different to what they will grow into e.g. a sunflower seed has black and white lines but will grow into a flower with yellow petals and will have a long green stem.

- A seed **given water and sunlight** will grow well and green.
- A seed **given water and no sunlight** will grow tall and yellow as they try to find light.
- A seed **given no water but sunlight** will not grow.
- A seed **not given water or sunlight** will not grow.

Some plants are grown in water this is called hydroponically and can be grown in different ways e.g. sometimes they're hung from a ceiling.

There are reasons why a plant may be unhealthy:

- No food/nutrients
- Lack of space and warmth
- No water or sunlight

Enquiry Skills

Pattern seeking, observing, identifying, describing and recording.

Working Scientifically Skills

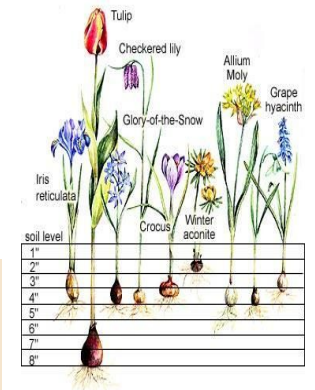
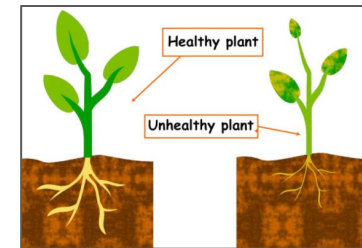
Use observations and ideas to suggest answers to questions.

Gather and record data to help in answering questions.

Observing closely, using simple equipment.

Key Vocabulary

<b>bulb</b>	A root shaped like an onion that grows into a flower or plant.
<b>sunlight</b>	Light from the sun.
<b>germinate</b>	To start or cause to start growth; sprout.
<b>growth</b>	The process of getting bigger.
<b>reproduce</b>	To make or produce again.
<b>pollen</b>	The fine, yellow powder made by a flowering plant.
<b>insects</b>	A small animal whose body is divided into three parts.



How to Tell If A Plant Is **Healthy**



Healthy plants grow rapidly



Healthy plants have healthy roots



Healthy plants are disease-free



Flowers are happiness



Healthy plants perk up



Healthy plants are colorfast