

Brentside Knowledge Organiser - Science

Year: 3	Topic: How do plants and flowers nourish?	National curriculum: Plants—identify and describe the functions of different parts of flowering plants. Explore the requirements of plants for life and growth and how they vary from plant to plant and the part that flowers play in the life cycle of flowering plants. Investigate the way in which water is transported within plants.
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What I should already know:

I can understand which things are living and which are not.
 I can identify a variety of common wild and garden plants.
 I can identify the structure of common flowering plants, including trees.
 I can observe and describe how seeds and bulbs grow into mature plants.
 I can find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.

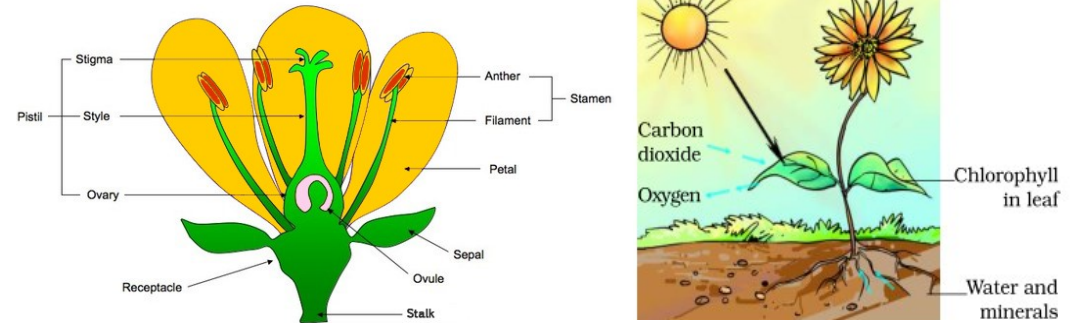
What I should know at the end of the topic:

I can explain the functions of a plant and what they need to grow.
 I can explain the life cycle of a plant.
 I can understand and explain why insects are important in pollination.
 I can understand how water is transported through a plant.
 I can understand the different ways in which plants disperse seeds.
 I can ask relevant scientific questions.
 I can set up a simple enquiry to explore a scientific question.

Investigate:

The effect of different factors in plant growth (e.g. the amount of water, the amount of light and the amount of fertiliser).
 Why do plants have stems/trunk; flowers; leaves and roots?
 Observing the different stages of plant life cycles over a period of time.
 Dissect fruits to observe their structure and use this to explain how seeds are dispersed.
 Why are bees so important to us?

Diagrams:



Vocabulary

Anther	The part of a stamen that produces and releases the pollen .
Bulb	A root shaped like an onion that grows into a flower or plant .
Dispersed	Scattered, separated, or spread through a large area .
Fertilisation	In plants, where pollen meets the ovule to form a seed .
Flower	The part of a plant which is often brightly coloured and grows at the end of a stem .
Germination	If a seed germinates or if it is germinated, it starts to grow .
Nutrients	Substances that help plants and animals to grow .
Pollination	To pollinate a plant or tree means to fertilise it with pollen. This is often done by insects .
Seed	The small, hard part from which a new plant grows .
Stem	The thin, upright part of a plant on which the flowers and leaves grow .
Roots	The parts of a plant that grow under the ground .
Transported	Taking something from one place to another .