



Knowledge

How does a plant grow?	<p>Observing over time Plant a seed and identify the parts of the process.</p>
Can we identify the parts of the plant life cycle?	<p>Observing over time Observe what happens when a plant grows from a seed. E.G seed, tree, bud, flower, fruit.</p>
Do plants need room to grow?	<p>Observing over time Observe the plants growth and need for resources. find out what conditions plants need to grow and how they compete for resources. Children can observe and compare plants sown close together and far apart making notes and drawings of their observations. The observations need to be made over several weeks, so they help to develop an awareness of observing over time and of the gradual process of plant growth.</p>
What does a seed need to germinate?	<p>Pattern Seeking Investigate a seed in different conditions and what happens. Place seeds in different places cold and dark Warm and dark which did they prefer and why?</p>
What does a plant need to grow?	<p>Pattern Seeking Once seeds have germinated think about how to carry out an investigation to see what a plant needs to grow thinking about the factors of water, light and temperature.</p>
How do different seeds germinate?	<p>Comparative Testing Observe and compare what/ how seeds germinate. What is similar/ different?</p>
Can we identify differences and similarities?	<p>Identifying and classifying Observe and record different seed types. Opportunity to use magnifying glasses and grouping. Sort different seeds.</p>
Which seed will germinate quicker and why?	<p>Comparative testing From exploring the seeds predict and reason which seed might germinate quicker.</p>
How do seeds disperse?	<p>Identifying and classifying Identify and group different ways seeds disperse for different reasons.</p>
Are all food types plants?	<p>Research Explore a range of plants and food types including vegetables.</p>

Vocabulary



Hurst Hill Primary School
Learning Together

Hurst Hill Primary School Knowledge Organiser

Science

Plants

Year 2

Spring 1

Biology

Biology is the science that understands living organisms, including animals and plants.

Plants

Pupils should be taught to:

- observe and describe how seeds and bulbs grow into mature plants
- find out and describe how plants need water, light and a suitable temperature to grow and stay healthy

Pollination To fertilise by the transfer of plant pollen

Germination The process in which the seed or bulb begins to grow into a plant

Life cycle The different stages of life for a living thing

Disperse To spread or scatter

Survival Living things have special features to help them to survive (stay alive) in their habitats

Bulb A large food source that helps a plant to grow

Plant A large group of living things that use sunlight to their own food

Seed A tiny developing plant that is enclosed in a protective coat

Stem The stem is the main structure of a plant that supports leaves and flowers

Roots The roots of a plant grow underground

Leaves Leaves come in different shapes and sizes. They help to take in the sunlight

Flower Flowers produce the seeds that become new plants

Petal The brightly coloured outside part of a plant

Fruit A usually sweet food

Vegetable The other edible parts of the plant