



# Knowledge Organiser

Subject: Year 1 Science

Term: Autumn 2019

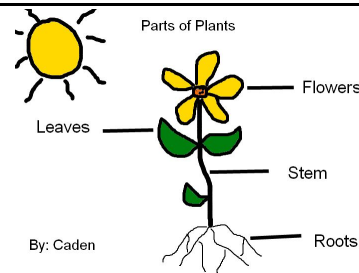
Project summary – **Plants**

**Plants are one of a large group of living things that use sunlight to make their own food. Most plant have leaves, stems roots and flowers. We will explore different plants and discover different plants and get to know how to grow a plant.**

## Enquiry Questions

### Labelling a plant and trees

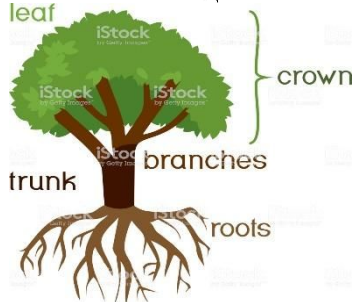
Can you label a plant?



#### Plants

Flower/petal  
Stem  
Leaf  
Roots

Can you label a tree?



#### Trees

Leaves  
Trunk  
Branches  
Roots

### Common wild and garden plants

What are the common wild and garden plants?

#### Wild plants

- Bluebell
- Bramble
- Cowslip
- Cow parsley


#### Garden plants

- Buddleia
- Clematis
- Dahlia
- Fuchsia
- Grass
- Heather
- Hollyhock
- Honeysuckle
- Lavender

What are the common flowering plants?

#### Flowering plants

- Orchids
- Daisy
- Sunflower
- Tomato plant

	<ul style="list-style-type: none"> <li>- Cactus</li> <li>- Buttercup</li> </ul>
<b>Plant functions</b>	
What are the key functions of a plant?	<p><b>Flower/petal</b> – Petals attract insects to the plant. Plants need insects to bring pollen they have collected from other flowers so they can make seeds. Petals are bright colours to attract the insects.</p> <p><b>Stem</b> – The stem transports water around the plant. It also holds the plant upright so it can get more sunlight.</p> <p><b>Leaf</b> – Leaves make food for the plant from carbon dioxide in the air and sunlight.</p> <p><b>Roots</b> - Roots absorb minerals and water from the soil. The roots also help the plant anchor in the soil and stay upright.</p>
<b>Comparing and contrasting trees</b>	
What is the difference between a deciduous and evergreen tree?	<p><b>A deciduous</b> tree loses its leaves every year. In autumn, the leaves on deciduous trees change colour and fall off. In winter, deciduous trees usually have no leaves on their branches.</p> <p><b>An evergreen</b> tree keeps its green leaves all year round</p> 
<b>Growing a plant</b>	
How do plants grow?	<p>Germination - The seeds start to grow when condition are suitable.</p> <p>Roots grow, usually underground.</p> <p>A stem and leaves form, and the plant makes its own food (photosynthesis).</p> <p>The pollen in the flowers is used to make seeds.</p> <p>Seeds are spread out so they can grow where they are not fighting for space with the parent plant.</p>
<b>Key Vocabulary</b>	
Photosynthesis - a process by which plants and other things make food	
Germination – a process by which an organism grows from a seed or similar structure.	
Evergreen tree – keeps green levees all year round	
Deciduous tree – loses its leaves every year	
<b>Useful websites</b>	
<a href="https://www.bbc.co.uk/bitesize/articles/z3wpsbk">https://www.bbc.co.uk/bitesize/articles/z3wpsbk</a>	