



# The Mead Infant and Nursery School – Science



## Year 1 Plants

### Key Knowledge

### Key Vocabulary

<b>A plant</b>	Is a living thing that grows.	tree	Usually a tall plant that has a trunk, branches and leaves.
<b>The names of some common garden plants</b> -Rose -Sunflower	People may grow plants in their gardens and care for them. • They may grow flowering plants which are beautiful to look at or beans and seeds to grow plants for food. • When plants are grown for food, this may be called a herb garden or vegetable patch.	crown	The top part of a tree with leaves and branches that grow out from the trunk.
		leaf	Usually green and flat and attach to the stem of a plant.
		twig	A smaller woody shoot growing from a branch.
		branch	Part of a tree that grows out of the tree trunk.
<b>The names of some common wild plants</b>		trunk	The main woody stem of a tree.
-Dandelion -Daisy -Buttercup -Nettle -Clover	<ul style="list-style-type: none"> <li>• A wild plant will grow by itself.</li> <li>• It does not need to be cared for.</li> <li>• If it grows somewhere unwanted, it may be a weed</li> </ul>	roots	The parts of the plant that grow underground.
		flower	The often brightly coloured, seed bearing part of a plant .
		flowering	Trees or plants which produce flowers.
<b>Deciduous and evergreen trees</b> -oak -maple -birch -Cherry blossom -sycamore -Fir -Hawthorn -ash	<ul style="list-style-type: none"> <li>• Deciduous trees lose their leaves in the autumn every year. Their leaves are generally broad, flat and have veins running through them.</li> <li>• Evergreen trees have green leaves all year round. Their leaves are generally thick, waxy and narrow like needles.</li> </ul>	seed	part of a flowering plant that can develop into a new plant.
		Bulb	A rounded shaped root that can develop into a flower or plant.
		stem	The thin upright part of a plant from which flowers & leaves grow. (Which transports water & minerals from the roots to the leaves.)
		common	Something that is found in large numbers or it happens often.
		deciduous	A tree that loses its leaves in the autumn and grows new ones in the Spring.
<b>What are the parts of common trees and plants?</b>		Evergreen	A plant or tree that keeps it's leaves all year round.
		plant	A living thing that grows and has a stem, leaves and roots.
		wild	Animals or plants that live or grow in natural surroundings and are not looked after by people.
		garden	A piece of land usually next to a house where grass, flowers and shrubs can be grown usually looked after by people.
		weed	A wild plant growing where it is not wanted.
<b>Scientific Enquiry</b>			
Be a tree detective- walk in local environment. Go on a wild plant hunt- tally how many of each is found. What is that? Dissecting a tulip. What do you see? What is it called? Get creative- how can you represent the parts of a flowering plant? Use time-lapse photography to record a seed growing or how deciduous trees change			



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## Year 2 Plants

### Key Knowledge

#### How seeds and bulbs grow

- A seed-The part of a flowering plant that can develop into a new plant.
- A bulb-A rounded shaped root that can develop into a flower or plant.
- When seeds initially start to grow it is called germination.
- To germinate seeds need:
  - warmth
  - air (oxygen)
  - water
- Seeds don't need light because they have a store of food inside them already.
- Once the stem breaks through the soil and gets its leaves it is then a plant because it can generate its own food.

#### How do plants grow?

- A plant-A living thing that grows and has a stem, leaves and roots.
- To grow and be healthy plants need:
  - Light
  - Water
  - air (Carbon dioxide)
  - warmth
  - nutrients

### Scientific Enquiry

Observe, compare & sort a variety of seeds. What will they grow into?

*Investigate:*

- Can a seed germinate without soil?
- Does it matter which way up the seed is planted?
- Prove that plants need water to stay healthy
- Prove the effects of light on plant growth
- Children to plant a bulb or a seed/ use more established plant and watch it grow.
- Record your observations in a diary.

### Key Vocabulary

survive	Continue to live
healthy	In good condition
grow	Develops usually in size and physical features.
germinate	Initial stage of growth
seed	The part of a flowering plant that can develop into a new plant.
bulb	A rounded shaped root that can develop into a flower or plant.
plant	A living thing that grows and has a stem, leaves and roots.
light	Brightness that comes from the sun or a bulb. (It is a form of energy needed for plants to make their own food.)
water	Clear liquid in seas, lakes, rivers, and rain
air	Invisible gas all around us which we breathe.
warmth	Of moderate heat.
nutrients	Substances that help plants and animals to grow.
Life cycle	A series of changes from young to adulthood

### Life cycle of a plant

