



KNOWLEDGE ORGANISER

Subject: Science

Year Group: 3

Topic: Plants

What I should already know	Sticky knowledge	Key skills
<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant. Investigate the way in which water is transported within plants. Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. 	<ul style="list-style-type: none"> Can explain observations made during investigations. Observe the effect of putting cut white carnations or celery in coloured water. Investigate what happens to plants when they are put in different conditions e.g. in darkness, in the cold, deprived of air, different types of soil, different fertilisers, varying amount of space. Classify seeds in a range of ways, including by how they are dispersed.

Vocabulary		Diagrams/Pictures
Roots	Anchor a plant in place. The roots also absorb water and nutrients from the soil.	 
Stem/trunk	Transports water and nutrients around the plant. It also holds the leaves/flowers up in the air.	
Leaves	They use sunlight and water to produce the plant's food.	
Photosynthesis	The way in which plants make food in their leaves.	
Pollen	This is a very fine powder that is produced by the male part of the flower.	
Pollination	When pollen is transferred to female parts of a flower. This can be done by wind or insects.	
Seed formation	Seeds can develop after pollination. They can be found in berries or fruits.	
Seed dispersal	Seeds can be dispersed in different ways, for example, wind, animals or water.	
Germination	When a seed sprouts a root and shoot.	