Willerby Carr Lane Primary School - Science				
Topic: Plants Year:		/ear 3	Strand: Biology	
What should I already know?         Vocabulary				
• What <b>Plants</b> need to grow.			bulb	a root shaped like an onion that grows into a flower or plant
<ul> <li>The names of some common garden plants (e.g. poppy, rose) and some common wild plants (e.g. daisy, dandelion, nettle)</li> </ul>		fertilisation	when pollen combines with the egg inside of the pistil to make a seed	
• The difference between <b>Deciduous</b> and <b>Evergreen trees.</b>			flower	the part of a <b>plant</b> which is often brightly
• The parts of a <b>plant</b> may include: <b>petals, fruits, roots, bulbs,</b>			germination	coloured and grows at the end of a <b>stem</b>
<ul> <li>seeds, stem, trunk and branches.</li> <li>The parts of plants we can eat (vegetables: leafy, root, stem,</li> </ul>			8	sprout/grow from a seed or spore
flowering; fruit; grains, cereals, nuts and seeds)			leaf/ leaves	the parts of a <b>plant</b> that are flat, thin and usually green
What will I know by the end of the unit?			nutrients	substances that help <b>plants</b> and animals grow
How do	Plants require: water, a sustainable     tomporature nutrients from soil and light to		petai	the <b>flower</b>
conditions	grow and stay healthy	i light to	pistil	female part of a flowering plant – this is sometimes known as 'carpel.'
the growth of a plant?	• Plant growth will be affected by the in which it is placed	conditions	pollen	pollen is a powdery substance that is transported from the anther (part of the stamen) to the stigma (part of the pistil)
How do plants reproduce?	<ul> <li>most plants need pollen or spores to make new plants</li> <li>pollination is the process of moving pollen onto the pistil</li> </ul>	pollination	pollination is when pollinators (such as bees) pass (transfer) pollen from one flowering plants' stamen to another plants' pistil, however in order for fertilization to work both flowers must be the same type	
	• pollinators, such as honey bees, mov from one flower to another	/e pollen	reproduce	when an animal or <b>plant</b> produces one or more individuals similar to itself.
	<ul> <li>fertilisation is when pollen combines egg inside of the pistil to make a see</li> <li>seeds can be dispersed in various was</li> </ul>	s with the d ays (by:	roots	part of a <b>plant</b> that attaches it to the ground, conveying water and nourishment to the rest of the plant.
	wind, animals including humans, water, bursting)	seed	the small, hard part from which a new <b>plant</b> grows	
What are	• Roots attach the plant and provide v	vater and	seed dispersal	the movement or transportation of seeds
the functions	nourishment		seedling	a young plant that has germinated however has not fully matured vet
of the of the tubes in the st	<ul> <li>Water is transported from the roots the tubes in the stem, to the tip of th</li> </ul>	<b>:d</b> from the roots, through m, to the tip of the plant	sepal	The sepal encloses the petals before they bloom and supports the head of the flower after blooming
flowering	• Leaves turn energy from the sun into	o food.	stamen	male part of a flowering plant
plants?	<ul> <li>The sepal and pistil are the male and parts of the plant used in reproduction</li> </ul>	d female on	stem	the thin, upright part of a <b>plant</b> on which the flowers and leaves grow
petals stamen			sustainable	keeping something at a consistent and constant
by the wind by animals by water by bursting vicit by humans		transportation	The movement of water and nutrients from the	
		tree	roots up to other parts of the plant a tall plant that has a hard trunk, branches, and	
		trunk	leaves the large main stem from which the branches grow	
			Investigate	
inivered archelon mg/k baseberry baseber			<ul> <li>Set up a comparative test to show how plants are affected by varying conditions (light, water, temperature, nutrients)</li> <li>Explore seed formation by planting crocus seeds and investigating the process</li> <li>Investigate how water is transported within plants with an example of water, food colouring and tissue/food colouring mixed with water/flowers</li> </ul>	
			<ul> <li>Investigate seed dispersal and pollination through the use of role play</li> </ul>	

Common misconceptions

Some children may think:

- plants eat food
- food comes from the soil via the roots
- flowers are merely decorative rather than a vital part of the life cycle in reproduction
- plants only need sunlight to keep them warm
- roots suck in water which is then sucked up the stem.