# Willerby Carr Lane Primary School - Science

Topic: Plants Year: Year 2 Strand: Biology

#### What should I already know?

- Plants can grow.
- The names of some **common garden plants** (e.g. poppy, rose) and some **common wild plants** (e.g. daisy, dandelion, nettle).
- **Deciduous trees** lose their leaves in the autumn every year.
- Evergreen trees have green leaves all year round.
- The parts of a plant may include: petals, fruits, roots, bulbs, seeds, stem, trunk and branches.

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What will I know by the end of the unit?		
What do plants need to grow?	<ul> <li>Plants require: water, a sustainable temperature, nutrients from soil and light to grow and stay healthy.</li> <li>When a plant grows it is called germination.</li> <li>Seeds and bulbs need water to grow but most do not need light; seeds and bulbs have a food store inside of them.</li> <li>Plants can: move, grow, sense (react to their surroundings), absorb nutrients, reproduce.</li> </ul>	
What plants do we eat?	<ul> <li>Many plants provide us with food by bearing fruits which carry their seeds.</li> <li>Farmers grow crops which provide us with food.</li> <li>We eat many fruits which contain seeds (e.g. tomatoes, kiwi fruit)</li> <li>We eat different parts of vegetable plants: root vegetables (carrots, potatoes); stem vegetables (celery, spring onion); leafy vegetables (cabbage, lettuce); flowering vegetables (cauliflower, broccoli)</li> <li>We eat grains and cereals from plants (wheat, oats)</li> <li>We eat some nuts and seeds (sesame, pumpkin, peanuts)</li> <li>Herbs are grown to add flavour into foods.</li> </ul>	
What are deciduous and evergreen trees?	Deciduous trees lose their leaves in the autumn every year. Their leaves are generally broad, flat and have veins running through them.     Evergreen trees have green leaves all year round. Their leaves are generally thick, waxy and narrow like needles.	
What are the parts of common trees and plants?	Four Parts of a tree  twig  fruit  branch  blossom  trunk  root	

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grow		· ·	
vegetable plants such as cabbages, potatoes, and	vegetable		
onions which you can cook and eat		·	
weed a wild <b>plant</b> that grows in garden and prevents the	weed		
plants that you want from growing properly			
wild animals or <b>plants</b> that live or grow in natural	wild		
surroundings and are not looked after by people		surroundings and are not looked after by people	

#### Investigate!

- Observe and record the growth of a variety of plants as they change over time from a seed or bulb to a mature plant
- Observe similar **plants** at different stages of growth
- Set up a comparative test to show how plants are affected by varying conditions (light, water, temperature, nutrients)
- Dissect a variety of fruits and locate where their seeds are

### Common misconceptions

## Some children may think:

- plants are not alive as they cannot be seen to move
- seeds are not alive
- all plants start out as seeds
- seeds and bulbs need sunlight to germinate