## **Science Scheme of Work**



Year 2 - Growing Plants ( Plants)		
Links made with	Instruction writing – how to plant a seed/ grow a plant	
other subjects	English Leaf – text	
The BIG Question	How do you plants grow?	
The BIG Outcome	Short explanation answering the question	
Science objectives	- observe and describe how seeds and bulbs grow into mature plants	
(link to NC)	-find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	
Prior knowledge What prior knowledge is needed for children to be successful in this unit?	Children already know:  EYFS — Understanding the world - Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes.  Yr 1 - Plants (Plants)	
Future learning	This unit gives prior knowledge to:	
Consider the conceptual knowledge within a subject that pupils need for future learning not just the recall of facts but the importance of concepts	Yr 3 - What plants need and parts of plants (Plants)	
Science strands	Related Enquiry Questions	
	Classifying	
	Based on the children's own criteria:	
	- classify seeds	
	-classify bulbs.	
	Observing over time	
	- Plant seeds and bulbs and observe how they grow.	
	Pattern Seeking	
	Children generate questions for investigation such as:	
	- Do big seeds germinate more quickly?	
	- Does it matter which way round you plant a bulb or seed?	
	- Which comes first, the root or the shoot?	
	Comparative testing	
	Not relevant	
	Researching	
	- Look at packets to decide how to plant and care for seeds e.g. How much water	
	do they need? Do they need shade/full sun?	
Vocabulary/	Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk,	
Glossary	bud. Evergreen & deciduous light, shade, sun, warm, cool, water, grow, healthy	
	Germinate	
Knowledge (see italics for knowledge	The knowledge that children will learn and remember:	
to remember)	<ol> <li>Plants may grow from either seeds or bulbs.</li> </ol>	
	<ol><li>These then germinate and grow into seedlings which then continue to grow into mature plants.</li></ol>	
	<ol> <li>These mature plants may have flowers which then develop into seeds, berries, fruits etc.</li> </ol>	
	<ol> <li>Seeds and bulbs need to be planted outside at particular times of year and they will germinate and grow at different rates.</li> </ol>	



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	5. Some plants are better suited to growing in full sun and some grow better in partial or full shade.
	<ol> <li>Plants also need different amounts of water and space to grow well and stay healthy</li> </ol>
SEND expectations	1. Plants may grow from either seeds or bulbs.
	<ol><li>These then germinate and grow into seedlings which then continue to grow into mature plants.</li></ol>
	<ol><li>These mature plants may have flowers which then develop into seeds, berries, fruits etc.</li></ol>
	<ol> <li>Seeds and bulbs need to be planted outside at particular times of year and they will germinate and grow at different rates.</li> </ol>
Common	Some children may think:
misconceptions	- 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.