





Science Knowledge and Skills Overview – Year Two Plants

National Curriculum Objectives		Sticky Knowledge		Prior Learning	
<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 warmth to grow and stay healthy. 		<ul style="list-style-type: none"> Plants grow from seeds and bulbs. Seeds and bulbs need water to grow but most do not need light. Seeds and bulbs have a store of food inside them. Plants need light and water to stay healthy. Seeds have a single lifecycle and bulbs have a continuous life cycle. 		<p><u>In Year 1 Children should:</u></p> <ul style="list-style-type: none"> Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants. 	
Links to NHFS core curriculum themes		Key Questions		Future Learning	
<p>Sustainability – impacts of trees and plants on the planet e.g. flooding caused by fewer green spaces.</p> <p>Aspirations – Farmer, landscape gardener, aspiring to be a better at looking after our environment</p> <p>Equality – not everyone has access to gardens/outdoor spaces.</p>		<p>Do cress produce seeds, how could we find out? Do all plants produce flowers and seeds? What is different between freshly cut and planted flowers? Do plants flower all year round? What are flowers for? What happens to a plant after it has produced seeds? How does light affect plant growth? How does warmth affect plant growth? What does the life cycle of a blackberry look like?</p>		<p><u>In Year 3 Children will:</u> Identify and describe the functions of different parts of the flowering plant: roots, stem/trunk/leaves and flowers. Explore the part flowers play in a flowering plants life cycle, including: pollination, seed formation and seed dispersal. Explain the requirements of plants for life and growth (air, light, water, nutrients from soil, room to grow) and how they vary between plants. Investigate the way in which water is transported between plants</p>	
Key Scientists		Vocabulary			Big Question
Jane Colden (Botanist) Agnes Arber (Botanist)		Dormancy, withering, blooming, lifecycle, bulb, seed, water, sunlight, growth, soil, temperature, shoots, roots, seasons			What should I do to grow a healthy plant?
Do cress seeds grow quicker inside or outside? 	Can we identify and group different seeds and bulbs? 	What happens to my bean after I have planted it? 	Do bigger seeds grow into bigger plants? 	How does a cactus survive in a desert with no water? 