



Topic Title: Let it Grow!

Year Group: 2

Academic Year: 2022-2023

Science Intent:

To use the local environment, to observe how plants and what plants need to grow

<p>Prior Scientific Learning/Linked Topics:</p> <ul style="list-style-type: none"> Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. (Y1 - Plants) Identify and describe the basic structure of a variety of common flowering plants, including trees. (Y1 - Plants) 	<p>Literacy Links (including texts/media used): The Windmill Farmer (Literacy Shed) Wangari's Tree of Peace</p>	<p>Maths Links: Measurement</p>		
<p>Scientific Knowledge</p>		<p>Working Scientifically</p>		
<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 	<p>Observing and Measuring over time</p> <p>Observe closely, using simple equipment.</p> <p>Use observations and ideas to suggest answers to questions.</p> <p>To observe changes over time and, with guidance, begin to notice patterns and relationships.</p>	<p>Identifying, classifying and grouping</p> <p>Observe and identify, compare and describe.</p>	<p>Comparative and fair testing (controlled investigations)</p> <p>Perform simple tests.</p> <p>To discuss my ideas about how to find things out.</p> <p>To say what happened in my investigation.</p>	<p>Research</p> <p>Use simple secondary sources to find answers.</p> <p>Can find information to help me from books and computers with help.</p>

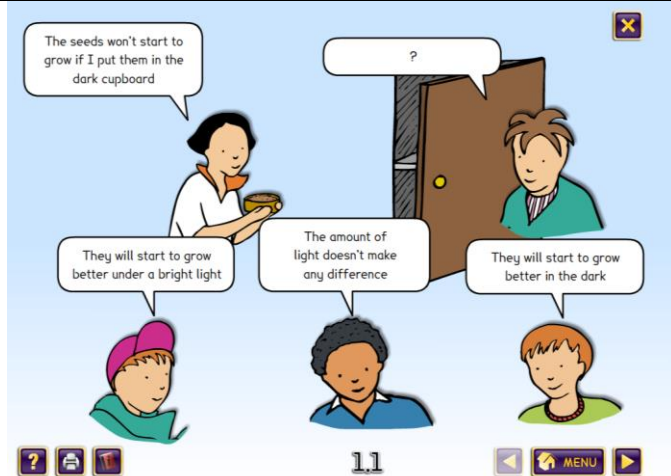


No Limits
To Learning!

<p>To say what I am looking for and what I am measuring.</p> <p>To know how to use simple equipment safely.</p> <p>Use simple measurements and equipment with increasing independence (eg hand lenses and egg timers)</p> <p>Begin to progress from non-standard units, reading mm, cm, m, ml, l, °C</p>			
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Content:

- **What we already know**
The children to tell me what they already know about plants.
- **identify and describe the basic structure of a variety of common flowering plants, including trees (prior knowledge)**
The children are given a selection of seeds and bulbs on their table and asked to have a look at them and talk about what they noticed. (Don't tell them what they are).
The children make careful observational drawings of seeds and bulbs. Review of Year 1 (prior learning)
Using different materials e.g. tissue paper, the children will create a plant picture and they will then label the parts of the plant e.g. stem, roots, leaves.
- **Making close observations of seeds and bulbs**
Observe and describe how seeds and bulbs grow into mature plants. Children to use magnifying glasses to help make close observations.
The children are shown images of a sunflower seed, sunflower seedlings and an amaryllis bulb, and asked to think about which is the odd one out and why?
- **Planting Bulbs**
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
The children will plant a bulb. Over the next month, they keep an eye on it, looking for how it changes and measure it.



Using the concept cartoon the children discuss the ideas.

- **Observing seeds germinating in the dark**

Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. Children to plant some sunflowers then kept in the cupboard- children to observe what happens over time.

- **Observing seeds germinating in the cold and warmth**

Some seeds were also put in the fridge. Children to make observations overtime. Children to measure.

- **Reflection on observing seeds germinating in different conditions**

The children were asked to reflect on what they had learnt by trying to germinate the seeds in different conditions. The children continued to observe the seedling growing in different conditions. The children to plant sunflower seeds in pots which were then taken outside once they germinated.

- **Growing a range of seeds**

Children to grow a plant that provides us with food. Children to water them, giving them plenty of lights and to take photographs of own plant? Is the plant getting everything it needs to survive?



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Key Vocabulary:

Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud

Names of trees in the local area

Names of garden and wild flowering plants in the local area

light, shade, sun, warm, cool, water, grow, healthy

Stunning Start/Marvellous Middle/Fabulous Finish:

SS- Walk around Wraysbury village identifying plants and trees in their local area.

MM- Visit to Wellington Country Park

FF-Planting their own vegetables

OAA/Trips/Visits/Visitors:

Ask parent/helper to come in and do some planting with the children.