

Inspiring and enabling our school community to live life to the full



YEAR 2

Subject: Science
Plants: Growing, observing and classifying

Characteristics of an Effective Learner

- Courage
- Commitment
- Collaboration
- Creativity
- Curiosity

Our Science curriculum aims to enthuse children and help them to be curious and develop a sense of excitement about the world. Through a range of teaching, learning and extra-curricular opportunities, children will develop scientific knowledge and conceptual understanding to recognise the uses and implications of Science, today and for the future. We encourage children to ask their own questions; predict how things will behave and analyse causes, using Science to explain what is happening.

<p>Prior Learning: Year 1 - Children learn to identify and compare common plants around the school. They look at the different parts of a plant and learn that roots help to anchor a plant in the soil.</p>	<p>Key Vocabulary taught in this unit: Seed, root, shoot, germinate, soil, light, temperature, warmth, water, moisture, stem, leaf, bud, flower, petal, pollen</p>
<p>Intent: What do we want the children to know, be able to do by the time they complete this unit?</p> <p>Observe and describe how seeds and bulbs grow into mature plants Use their observations to describe and identify seeds. Consider what they need to find out about seeds and growing plants. Plant seeds that they will observe over a number of weeks. Plant some bulbs to observe as a class and begin a class book to record their investigations. Investigate pea germination. Keep seed diaries to record their observations of the germinating seeds. Summarise their learning about growing plants from seeds using their observation of the seeds</p> <p>Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy Investigate pea germination. Plan a test to investigate how to keep mature plants healthy.</p> <p>Enquiry skills</p> <p>Asking simple questions and recognising that they can be answered in different ways Ask questions about seeds and select one to plan a growing investigation. Devise an experiment to find out what mature plants need in order to stay healthy.</p> <p>Observing closely, using simple equipment Make detailed observations of pea seeds over a number of weeks and record these in a seed diary. Use a ruler to measure the roots and shoots as their peas germinate.</p> <p>Performing simple tests Devise and carry out a test to determine what mature plants need in order to stay healthy.</p> <p>Identifying and classifying Describe different seeds and sort them using a classification chart.</p> <p>Using their observations and ideas to suggest answers to questions Look at the results of tests which deprive healthy plants of soil, water warmth and light to decide what mature plants need in order to stay healthy.</p> <p>Gathering and recording data to help in answering questions Record observations over a period of time in their seed diaries to help them answer questions about how seeds germinate.</p>	
<p>Impact / Outcome: What will the final product / result be? Children grow a range of different plants (eg carrots, lettuce, potatoes, nasturtiums, peas, bulbs) and observe closely what happens over a period of time. They carry out investigations to find out what seeds need to help them germinate and what mature plants need to stay healthy.</p>	
<p>P4C Inquiry (where appropriate) NA</p>	