Science: Plants (How seeds and bulbs grow) Year 2

Definition:

a living organism of the kind exemplified by trees, shrubs, herbs, grasses, ferns, and mosses, typically growing in a permanent site, absorbing water and inorganic substances through its roots

Biology definition: The word **biology** is derived from the greek words /bios/ **meaning** /life/ and /logos/ **meaning** /study/ and is **defined** as the science of life and living organisms. An organism is a living entity consisting of one cell e.g. bacteria, or several cells e.g. animals, plants and fungi.

POS:

Observe and describe how seeds and blubs grow into mature plants

Describe how plants need water, light and a suitable temperature to grow and stay healthy

Prior learning:	Links to other science
 Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. 	topics:
 Identify and describe the basic structure of a variety of common flowering plants, including trees. 	Plants: year 1 and 3
	Living things: year 4 and 5
Disciplinary concepts:	
Growth: what do plants need to help them grow well?	
Cause and effect: why don't all seeds and bulbs grow?	
Common misconceptions:	
plants are not alive as they cannot be seen to move	
• seeds are not alive	
all plants start out as seeds	
· seeds and builds need sunlight to germinate.	
Core Knowledge:	
plants may grow from either seeds of builds. These then germinate and grow into seedings which then continue to grow into mature	
outside at particular times of year and they will germinate and grow at different rates. Some plants are better suited to growing in full sun	
and some grow better in partial or full shade. Plants also need different amounts of water and snace to grow well and stay healthy	
Wider Knowledge:	
Adaptations of plants around the world	
Working scientifically:	
• Observing and recording with some accuracy, the growth of a variety of plants as they change over time from a seed or	
bulb, or observing similar plants at different stages of growth: setting up a comparative test to show that plants needs	
light and water to stay healthy.	
End Goals:	
 Made close observations of seeds and bulbs and can talk about them. 	
 Knows from direct observation that seeds and bulbs do not need light to germinate but they do need some warmth 	
 Observed how seedlings grow differently according to the light level 	
 Through the year observed a range of seeds and plants growing to maturity, although they are also aware that not all 	
seeds and hulbs that were planted had the right conditions to be healthy and survive	
CPD: Reach out CPD	

Science Association / STEM website / Explorify / National Trust

