



Knowledge Organiser	Subject: Science	Topic: Growing Plants	Year: 2
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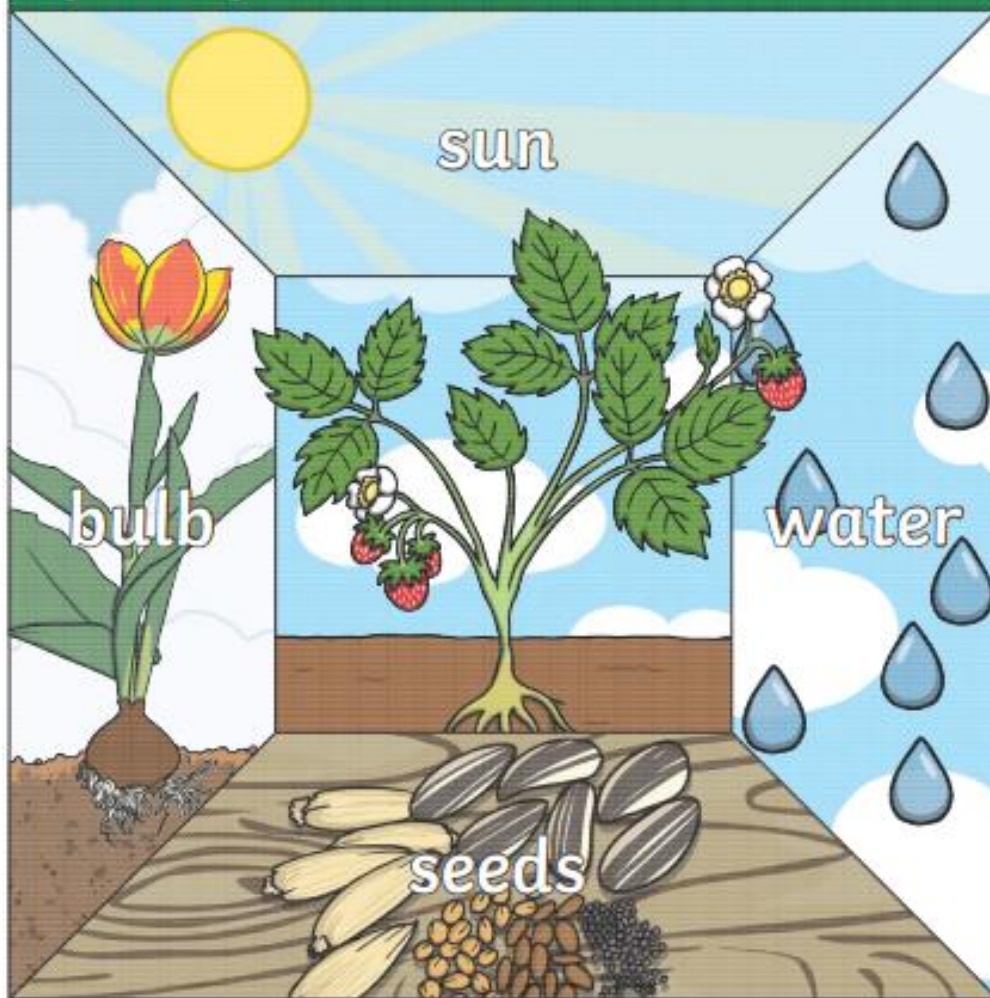
<u>Key Knowledge</u> Plants may grow from either seeds or bulbs. These then germinate and grow into seedlings which then continue to grow into mature plants. These mature plants may have flowers which then develop into seeds, berries, fruits etc. Seeds and bulbs need to be planted outside at particular 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 space to grow well and stay healthy. <u>Common misconceptions</u> • 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.			<u>Key Learning</u> • Describe how plants grown from seeds and bulbs have developed over time. • Identify plants that grow well in different conditions. <u>Disciplinary Skills</u> • Sequencing • Conducting investigations • Interpret a given set of results • Considering how plants change over time		
<u>Key Concepts</u>			The Big Question How do plants grow?		
<u>Plant Growth</u> Plants can grow from seeds or bulbs. They start by germinating and developing into seedlings, which eventually grow into mature plants. These mature plants may produce flowers that turn into seeds, berries, or fruits.	<u>Timing and Conditions for Growth</u> Seeds and bulbs need to be planted at specific times of the year, and they germinate and grow at different rates. Some plants thrive in full sun, while others prefer partial or full shade.	<u>Water and Space Requirements</u> Plants have different needs for water and space to stay healthy and grow well. Understanding these needs helps us know which plants will do best in various conditions.			

Key Vocabulary	
germination	The development of a plant from a seed or spore after a period of dormancy.
sprout	A shoot of a plant.
shoot	Any plant stem together with appendages like leaves, flowering stems and flower buds.
seed dispersal	The movement, spread or transport of seeds away from the parent plant.
bulb	A rounded underground storage organ, present in some plants.
space	Spacing plants allows them to spread their roots and access the necessary nutrients in the soil.



Linking Thinking Across Our Learning Journey						
Early Years	Year One	Year Two	Year Three	Year Four	Year Five	Year Six
	Plants 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, including trees.	Growing Plants	Plants Identify and describe the functions of flowering plant parts. Explore what plants need to live and grow and how this varies from plant to plant. Investigate how water is transported within plants. Explore the life cycle of plants.			

Key Knowledge



Key Knowledge

