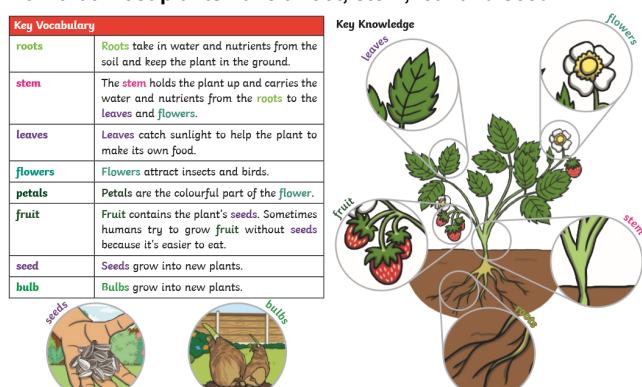


# STEM Living things – habitats and plants

Click here for Living things Key Stage 1 plan <https://docs.google.com/document/d/1eoDBooUSHVV7yUC6DJo-nfNDyrN8eCiR/edit>

		National Curriculum Objectives	Substantive Concepts	Skills	Knowledge	Key Vocabulary	When																		
R	Year A	Make observations of animals and plants and explain why some things occur	That plants are different from animals.	Talk about similarity and difference between plants. Compare leaves and fruit. Know whether they are talking about a plant or an animal.	Plants live and die. They need water and sun to survive.	Plant Leaf Roots																			
YR 1	Year A	<p>identify and name a variety of common wild and garden plants, including deciduous and evergreen trees</p> <p>identify and describe the basic structure of a variety of common flowering plants, including trees</p>	<p>All living things have names.</p> <p>Living things are made up of different parts which do different jobs.</p>	<ul style="list-style-type: none"><li>Observing closely</li><li>Recording observations</li><li>Using a magnifying glass</li><li>Drawing diagrams</li><li>Labelling diagrams</li></ul> <p>Keeping records over time</p>	<p>Be able to recognize the trees in the school field. To know their names. Know if they are deciduous or ever green.</p> <p>To grow a selection of flowers/veg and know their names. To be able to look after them and keep them healthy.</p> <p>Know that most plants have a root, stem, leaf and seed.</p> <table><thead><tr><th>Key Vocabulary</th><th>Key Knowledge</th></tr></thead><tbody><tr><td>roots</td><td>Roots take in water and nutrients from the soil and keep the plant in the ground.</td></tr><tr><td>stem</td><td>The stem holds the plant up and carries the water and nutrients from the roots to the leaves and flowers.</td></tr><tr><td>leaves</td><td>Leaves catch sunlight to help the plant to make its own food.</td></tr><tr><td>flowers</td><td>Flowers attract insects and birds.</td></tr><tr><td>petals</td><td>Petals are the colourful part of the flower.</td></tr><tr><td>fruit</td><td>Fruit contains the plant's seeds. Sometimes humans try to grow fruit without seeds because it's easier to eat.</td></tr><tr><td>seed</td><td>Seeds grow into new plants.</td></tr><tr><td>bulb</td><td>Bulbs grow into new plants.</td></tr></tbody></table> 	Key Vocabulary	Key Knowledge	roots	Roots take in water and nutrients from the soil and keep the plant in the ground.	stem	The stem holds the plant up and carries the water and nutrients from the roots to the leaves and flowers.	leaves	Leaves catch sunlight to help the plant to make its own food.	flowers	Flowers attract insects and birds.	petals	Petals are the colourful part of the flower.	fruit	Fruit contains the plant's seeds. Sometimes humans try to grow fruit without seeds because it's easier to eat.	seed	Seeds grow into new plants.	bulb	Bulbs grow into new plants.	Alive Dead Wild plants Garden plans Roots Stem Leaf Petal	
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Yr 2	Year A	<ul style="list-style-type: none"><li>observe and describe how seeds and bulbs grow into mature plants</li><li>find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.</li></ul>	All living things start from a seed and grow. They change over time.	<p>Observe the world around them.</p> <p>Onserve changes over time</p> <p>Use simple measurements and equipment.</p> <p>Set up simple experiment</p> <p>Record results.</p>	<p>Know that plants need water and light to grow.</p> <p>Know what an unhealthy plant looks like.</p> <p>Know that different plants are suited to different temperatures.</p>	Seed Bulb Germinate Produce Shoots Sapling Healthy Nutrients Oxygen Temperature Appropriate																			
YR 3	Year A	<p>Plants – life cycles</p> <p>identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</p>	All living things have the same requirements. A deficit of one of those things prevents it from flourishing.	<p>Use secondary information.</p> <p>Make decisions about a scientific enquiry Discuss the use of a control</p> <p>Create a fair test</p> <p>Record results and draw conclusions.</p>	<p>Know the parts of a flowering part and their basic functions.</p> <p>Know what living things need to survive and what a deficit of those things looks like in a plant.</p> <p>Investigate and understand the way in which water is transported within plants Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. Know the different ways that seeds are dispersed.</p>	Leaf Trunk Flower Petal Roots Stigma Pollen Sepal Filament  Stem																			

		<p>explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant</p> <p>investigate the way in which water is transported within plants</p> <p>explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</p>			Shape of seeds, birds and wildlife etc...	Dispersion Control	
YR 4	Year A						
YR 5	Year A						
YR 6	Year A		g.				
YR 6+							