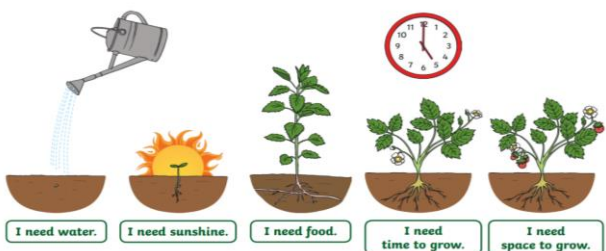


The Spring Partnership Trust – Knowledge Organiser

Science Focus		Plants	Year 3 (recap from Y2)														
What? (Key Knowledge)		Statutory requirements															
<p>Structure of plants - In most plants the part above the ground is the shoot system and the part below is the root system.</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. 															
Leaf	The leaf makes food for the plant by photosynthesis.	<table border="1"> <thead> <tr> <th colspan="2">What? (Key vocab)</th> </tr> <tr> <th>Spelling</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>Germination</td> <td>When conditions are right, the seed soaks up water and swells, and the tiny new plant bursts out of its shell.</td> </tr> <tr> <td>Sprout</td> <td>When a plant sprouts, it grows new shoots.</td> </tr> <tr> <td>Shoot</td> <td>A shoot grows upwards from the seed or plant to find sunlight.</td> </tr> <tr> <td>Seed dispersal</td> <td>The movement, spread or transport of seeds away from the parent plant. They can be moved by the wind or animals.</td> </tr> <tr> <td>Blossom</td> <td>The flowers that appear on a tree before the fruit.</td> </tr> </tbody> </table>		What? (Key vocab)		Spelling	Definition	Germination	When conditions are right, the seed soaks up water and swells, and the tiny new plant bursts out of its shell.	Sprout	When a plant sprouts, it grows new shoots.	Shoot	A shoot grows upwards from the seed or plant to find sunlight.	Seed dispersal	The movement, spread or transport of seeds away from the parent plant. They can be moved by the wind or animals.	Blossom	The flowers that appear on a tree before the fruit.
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Stem	The stem supports the leaves and is also part of the plant's transport system.																
Buds	Buds are undeveloped shoots.																
Flowers	Some buds produce flowers. These are shoots specialised for reproduction.																
Roots	Roots anchor the plant to whatever material it is growing on or in. They also absorb water and other chemicals that the plant needs in order to live healthily and grow normally.																
Requirements of plants		<table border="1"> <thead> <tr> <th colspan="2">Possible experiences</th> </tr> </thead> <tbody> <tr> <td colspan="2"> <ul style="list-style-type: none"> • Try growing plants in different conditions. Change one variable e.g. light, water or nutrients and see how this affects growth. </td> </tr> <tr> <td colspan="2"> <ul style="list-style-type: none"> • Visit a garden to find and identify flowering plants. Take some photographs and have children label them when they get back showing the different parts of the plant. </td> </tr> <tr> <td colspan="2"> <ul style="list-style-type: none"> • Make a model of different types of plants including vegetables and trees to help children become more familiar with the main parts of plant. </td> </tr> </tbody> </table>		Possible experiences		<ul style="list-style-type: none"> • Try growing plants in different conditions. Change one variable e.g. light, water or nutrients and see how this affects growth. 		<ul style="list-style-type: none"> • Visit a garden to find and identify flowering plants. Take some photographs and have children label them when they get back showing the different parts of the plant. 		<ul style="list-style-type: none"> • Make a model of different types of plants including vegetables and trees to help children become more familiar with the main parts of plant. 							
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Sunlight	All plants need light from the sun to grow well. Some plants need lots of sunlight and some need only a little.																
Water	All plants need water to grow. Without water, seeds and bulbs will not germinate.																
Temperature	This is how warm or cold something is. Different plants like cooler or warmer temperatures.																
Nutrition	Food or nourishment. Plants make their own food in their leaves using sunlight.																
Diagrams																	
<p>What Does a Plant Need to Grow?</p>  <p>The diagram illustrates the five essential needs for a plant to grow: water, sunshine, food, time, and space. Each need is represented by an illustration and a corresponding speech bubble from the plant.</p> <ul style="list-style-type: none"> I need water. (Illustration: A watering can pouring water onto a seedling.) I need sunshine. (Illustration: A sun shining on a seedling.) I need food. (Illustration: A growing plant with leaves.) I need time to grow. (Illustration: A clock face.) I need space to grow. (Illustration: A plant with roots spreading in soil.) 																	