

KS1
Autumn 1

Manor Leas Infant School Knowledge Organiser
Science
Plants



Star Words	Definition
shade	An area with little or no light.
bulb	A root shaped like an onion that grows into a new plant.
germinate	When the conditions are right, the seed soaks up water and swells, and the tiny new plant bursts out of its shell. This is called germination.
shoot	A shoot grows upwards from the seed or plant to find sunlight.
seedling	.A young plant that has grown a stem, leaves and root.

Sticky Knowledge

Plant parts

What Plants Need to Grow

Water and Nutrients	Light
<p>Like animals and humans, plants need water and nutrients to survive.</p> <p>-Plants are able to get water from the soil through their roots.</p> <p>-They can also catch water on their leaves.</p>	<p>Plants need lots of sunlight to help them grow.</p> <p>-Plants do not eat food. They instead use sunlight to make their own food.</p> <p>-Too little light will leave plants weak.</p>
Temperature	Space and Time
<p>-Plants need the temperature to be just right for them to grow properly.</p> <p>-If it is too hot, they may burn and wilt. If it is too cold, they may freeze and die. This is why there are less plants at the poles and the deserts.</p>	<p>-Plants need room for their roots and stems to be able to grow. Without enough room, they may not grow large enough.</p> <p>-Plants also need time – it can take days, months or even years for them to grow.</p>

Plant Life Cycle

Plants have a clear life cycle that helps them to keep reproducing:

Seeds/bulbs – Plants begin life as seeds or bulbs. They need soil, air and water to grow.

Seedling – Plants grow into young plants. They now need light, temperature, water, space and time to keep growing.

Flowering/Fruit – Plants grow flowers and fruits. These produce seeds. When the plant dies or is pollinated, the seeds find their way to the soil. The process starts again!

Helpful Books and Websites

[Plants - KS1 Science - BBC Bitesize](#)

Home Learning Ideas

Can you plant a seed or bulb at home and watch it grow?
You could record your findings in a diary and take pictures at different stages!

Bulb

Seed