



St Paul's C of E Primary School – Knowledge Organiser

Name of Topic

Roots and Shoots

Year Group

3

Key Vocabulary and Spellings

1	plants	A plant is defined as a living thing that grows on the earth.
2	respiration	Plant respiration involves taking in oxygen and releasing it as carbon dioxide into the air.
3	seedlings	A young plant grown from a seed.
4	root	A root is a part of a plant that is normally underground. Its primary roles are to anchor the plant in the ground, to absorb water and minerals and bring these to the stem.
5	stem	This holds the plant up and carries water and nutrients from the soil to the leaves.
6	leaves	Leaves are attached to a stem or branch. One of their main jobs is to help the plant to collect sunlight.
7	flower	A flower is the part of a plant that blossoms. Flowers produce the seeds that can become new plants.
8	petals	Petals surround the reproductive parts of flowers.
9	buds	A small growth at the tip or on the side of a plant stem that later develops into a flower, leaf, or new shoot.
10	wilting	The drying out or drooping of plants.

Top 5 Topic Facts

1	Plants are living things. To be able to grow they need the right temperature, light, water, air, nutrients, and time.
2	Plants become unhealthy or even die if they do not have the right requirements. If a plant becomes droopy it is said to be wilting .
3	A plant makes food from 2 main ingredients. These are water and a gas in the air called carbon dioxide.
4	A green chemical in the leaves called chlorophyll uses energy from sunlight to make food.
5	In the autumn, most plants stop making food. The leaves can change colour because the green chlorophyll breaks down and disappears.



Key Investigations/Questions

1	What are the different parts of a plant? What is the role of each part?
2	What do plants need to be able to grow?
3	How is water transported within plants?