

Intent

To develop—regardless of gender, ability or background —children with knowledge and understanding of advances in science, famous scientists, important discoveries and scientific vocabulary, so that children are excited by science.

Specific Knowledge—Key Vocabulary

Word	Definition
Plant	A plant is a living organism.
Stem	The upright main stalk of a plant.
Root	The part of the plant that grows under the ground.
Leaf	These are flat, thin and usually green.
Flower	The part of a plant that is often brightly coloured.
Bud	Growth on a plant that develops into a stem, leaf or shoot.
Seedling	A young plant that has grown from a seed.
Germinate	When a seed begins to grow its shoots. Seeds need warmth and water to germinate.

Enabling Knowledge

- To name and label the basic parts of a flowering plant and tree.
- To know what a plant needs to survive, and understand that different plants need different amounts of sunlight, light, soil etc..
- To understand how a seed or bulb germinates to grow into a mature plant.
- To set up an investigation to find out what a seed needs to grow.
- Observe the seed over time and record the results.
- Set up a comparison investigation for plants growing in the sunlight vs darkness.

Pre Learning Recap

What are deciduous and evergreen plants?
Name the basic parts of a flowering plant and tree.

Some plants grow best in full sun.



Some plants grow best in the shade.



Some plants need lots of water.



Some plants don't need much water.



David

Douglas
(1799-1834)



Scientists/Innovators

David Douglas was a Scottish botanist, best known as the namesake of the Douglas-fir. He worked as a gardener, and explored the Scottish Highlands, North America and Hawaii.

Diagram



Assessment—apply learning: 1) Describe how seeds and bulbs grow into mature plants. 2) Describe how plants need water, light and a suitable temperature to grow and stay healthy.