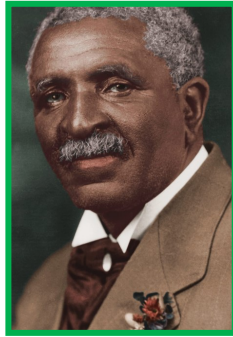




Key Scientist: George Washington

Carver was a plant scientist and inventor who developed hundreds of products using peanuts, sweet potatoes and soybeans. Born into slavery a year before it was outlawed, George invented the idea of crop rotation which protected soil and the environment.



Key Knowledge: What do Plants need to grow well?

Aspect	Reason
sunlight	All plants need light from the sun to grow well . Some plants need lots of sunlight. Some plants only need a little sunlight.
water	All plants need water to grow. Without water, seeds and bulbs will not germinate.
temperature	Temperature is how warm or cold something or somewhere is. Some plants like cooler temperatures and some like warmer temperatures.
nutrition	Nutrition is food or nourishment. Plants make their own food, in their leaves, using sunlight.

Key Vocabulary

Word	Definition
germination	When the conditions are right, the seed soaks up water and swells. Then the tiny new plant bursts out of its shell. This is called germination.
sprout	This is when a plant sprouts. It grows new shoots.
shoot	A shoot grows upwards from the seed or plant to find sunlight.
bulb	A bulb is the name given to the underground bud or stem of a seed plant at resting stage.



Life Cycle of a Plant

Some plants grow first from a seed and then develop a bulb that helps them grow back year after year.

A bulb lets the plant rest underground over the winter when it is too cold. It will grow back later in the year when the conditions are right.

Daffodils and tulips are common plants that grow from a bulb.