



Year 3



Statutory Requirements:

- Identify and describe the functions of different parts of plants; roots, stem, leaves and flowers
- Explore the requirements of plants for life and growth (air, light, nutrients from soil and room to grow) and how they vary from plant to plant
- Investigate the ways in which water is transported within plants
- Explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal

Working Scientifically:

- Asking relevant questions and using different types of scientific enquiries to answer them
- Setting up simple practical enquiries, comparative and fair tests
- Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables

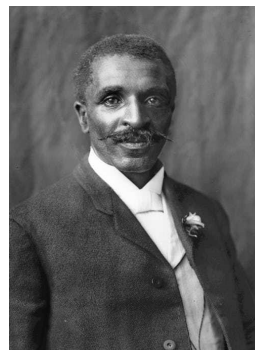
Key Knowledge:

- Plants need the correct amount of air, light, nutrients and room to grow.
- The main structures of plants are roots, stems, leaves and flowers.
- Roots anchor the plant and absorb water and nutrients from the soil.
- The stem supports the plant and transports water and nutrients.
- Leaves respire and create energy via photosynthesis.
- Flowers produce offspring by pollination, seed creation and seed dispersal.

Key Vocabulary:

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|-------------|------------------|
| ➤ Structure | ➤ Soil |
| ➤ Function | ➤ Transportation |
| ➤ Roots | ➤ Life Cycle |
| ➤ Stem | ➤ Pollination |
| ➤ Leaves | ➤ Seed Dispersal |
| ➤ Flowers | ➤ Seed Formation |
| ➤ Growth | ➤ Offspring |
| ➤ Air | ➤ Photosynthesis |
| ➤ Light | ➤ Absorb |
| ➤ Nutrient | ➤ Bulb |

Key Scientists:



Classic
George Carver
Washington
(1861 - 1943)

American botanist, a former slave who promoted alternative crop growths to cotton.



Contemporary
Tu Youyou (1930 -)
Chinese botanist who discovered treatment for malaria using medicines from plants.