

Science Overview – Plants

Year Three

Spring Term

Key Question: Why was the River Nile so important?

National Curriculum

- identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.
- explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.
- investigate the way in which water is transported within plants.
- explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.

SUBSTANTIVE KNOWLEDGE

- 1) Know and identify the parts and functions of a flowering plant.
- 2) Know and describe the stages in the life cycle of a flowering plant.
- 3) Know what plants need for life and growth and how this can vary between plants.
- 4) Know that photosynthesis is how green plants make their food.
- 5) Know and describe how water moves through plants.
- 6) Know that seeds can be dispersed in a number of ways.

Key Vocabulary

roots, stem, leaves, flowers, petal (Y1 vocab recap)
germination, seed dispersal (Y2 vocab recap)
nutrients, evaporation, fertilisation, stamen, carpel, sepal, pollination, pollinator, photosynthesis

Previous year groups key vocabulary:

germination, shoot, seed dispersal, sunlight, water, temperature, nutrition

Disciplinary Concepts

- identifying differences, similarities or changes related to simple scientific ideas and processes

Enquiry type to cover and enquiry suggestion

Observing over time (enquiry type)
How do flowers in a vase change over time?

Learning Milestones /Assessment

- I can...
- Identify the key parts of a flowering plant and describe their functions.
 - Say what plants need for life and growth, understanding that this might differ in some plants (e.g. cacti, water lilies)
 - Describe the life cycle stages of a plant.
 - Name different ways that a seed can be dispersed.
 - Describe what photosynthesis is.
 - Explain how water moves through a plant.