

**Y3/4 Year A Autumn Term**

**Topic: Plants**

**Subject: Science - Plants**

**National Curriculum Objectives**

**Key Knowledge and Vocabulary**

**Y3/4**

- 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

Know the name of the main parts of flowering plants

Know and explain the **function** of **roots**

Know and explain where plants get their water from

Name the parts of the plant that transport water

Know that plants roots **absorb** water which is distributed around the plant via the **stem**

Know that water moves through the plant by means of **capillary action**.

Plan and carry out simple investigations and draw simple conclusions

**Y3**

- 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

be the functions of **leaves** in flowering plants  
Know what plants need to produce their own food

Know that plants make their own food using air and sunlight.

Know and explain the function of **leaves** in flowering plants

Start to explain some stages in the life cycle of flowering plants

Name the main parts of flowers including **petal**, **stamen** and **carpel** and describe their functions

**Links to our school values**

Respect  
Thankfulness

Describe one of the ways in which flowering plants **reproduce**

Know how **pollination** occurs

Know how and where **seeds** are formed in flowering plants

Know how the **ovaries** of flowering plants grow to form seeds.

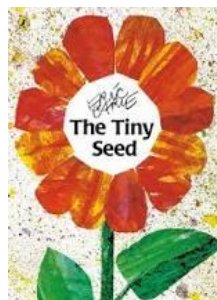
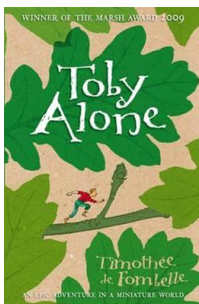
Know and explain why flowering plants need to **disperse** their seeds

Describe some ways in which seeds are dispersed

Understand how to identify how seeds are dispersed based on their appearance

**Stories to support learning**

Toby Alone – Timothee de Fombelle  
The Tiny Seed – Eric Carle



Name the parts of a seed and describe their functions

Identify the parts of a seed

Know that new plants grow from the seeds

Know and explain why seeds are an important **food source** for animals