

Year Group	3
Term	Spring 1
Subject	Science

Topic	Plants
Curriculum Intent	To explore the functions of different parts of flowering plants, the requirements for growth, water transportation within plants and reproduction through pollination and seed dispersal. Children will develop scientific enquiry skills through observation, experimentation and explanation

Key Vocabulary	photosynthesis, nutrients, xylem, phloem, stomata, transpiration, reproduction, pollination, seed dispersal, fertiliser, sapling, chlorophyll, pollen, nectar
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Skills	Ask relevant questions and use scientific enquiries to answer them. Make systematic and careful observations. Set up simple comparative and fair tests. Record findings using labelled diagrams, charts and scientific language. Draw conclusions and use evidence to support findings. Present data and explain findings in oral and written forms.
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Knowledge	Pupils should be taught to: • Identify and describe the functions of different parts of flowering plants • Explore the requirements of plants for life and growth and how they vary • Investigate how water is transported within plants • Explore pollination, seed formation, and dispersal in the life cycle of flowering plants
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Week	Learning Objective	Activities	Outcome
1	LO: To compare the effect of different factors on plant growth	Children plan their own fair test to investigate light, water, nutrients or space. Plant seeds with a control variable. Record predictions and methods.	Children understand variables in a fair test and make predictions.
2	LO: To describe the functions of parts of a flowering plant and their role in photosynthesis	Use DE presentation and handouts to label a diagram of a plant. Discuss role of leaves, stem, roots and flowers in photosynthesis.	Children explain how each part of a plant contributes to survival and growth.
3	LO: To investigate how water is transported within plants	Observe dyed water experiments with celery or white flowers. Draw xylem and phloem. Record changes over time.	Children describe water transport through xylem and the process of transpiration.
4	LO: To explore the part that flowers play in the life cycle of flowering plants	Build and label a model flower. Use diagrams and videos to explain the role of anther, stigma, filament and style.	Children describe reproductive parts of a flower and their functions.
5	LO: To understand pollination and how seeds are dispersed	Make a class display showing wind, water, animal and explosion dispersal. Sequence the pollination process.	Children explain how seeds are dispersed and how pollination leads to seed formation.
6	LO: To compare results of plant growth experiments and explain using scientific evidence	Children observe plant growth results, compare to control, and write conclusions. Present findings using diagrams and explanations.	Children evaluate their investigation, draw conclusions and suggest improvements.