

Plants

Year 3 Autumn 1

Key Vocabulary

wind pollination	Pollination of plants by means of pollen carried on the wind.
photosynthesis	The process by which green plants and some other organisms use sunlight to synthesize nutrients from carbon dioxide and water.
pollen	A fine powdery substance, typically yellow, consisting of microscopic grains discharged from the male part of a flower or from a male cone.
seed formation	A seed is formed when fertilised ovule divides by mitosis.
seed dispersal	Seed dispersal is the mechanism by which plant seeds are transported to new sites for germination and the establishment of new individuals.
soil	The upper layer of earth in which plants grow.
absorb	Take in or soak up (energy or a liquid or other substance) by chemical or physical action.
transport	To take or carry something from one place to another.

Why don't you...

- Create your own piece of art work depicting your favourite flower?
- Write an explanation text explaining how flowers transport nutrition from the soil to the petals?
- Make your own potpourri?

Website Links

<http://www.sciencekids.co.nz/sciencefacts/plants.html>

<http://www.scienceforkidsclub.com/plants.html>

<https://www.ducksters.com/science/biology/plants.php>

Enquiry Questions

How can you prove that a plant is a living thing?
Do all plants have the same parts?
Can a plant survive without a stem?
Why is a stigma sticky?
Would there still be plants if there was no wind?
What would the world be like with no plants?

Scientific Concepts

Structure and Function

Anything composed of parts arranged together in some way has a structure. A function is a specific job or procedure.

Process (inc growth)

A series of actions or steps taken in order to achieve a particular end. The process of increasing in size.

Scientific Skills

- Set up a simple fair test to make comparisons.
- Explain why they need to collect information to answer a question.
- Describe what they have found using scientific words.
- Suggest improvements and predictions for further tests.
- Considering evidence and evaluating.
- Suggest how to improve their work if they did it again.

Scientific Knowledge

- Identify and describe the functions of different parts of flowering plants.
- Explore the requirements of plants for life and growth (air, light, water, nutrients) 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 cycles of flowering plants, including pollination, seed formation and seed dispersal.
- Explore the role of flowers in the life cycle of flowering plants. Including pollination, seed formation and seed dispersal.