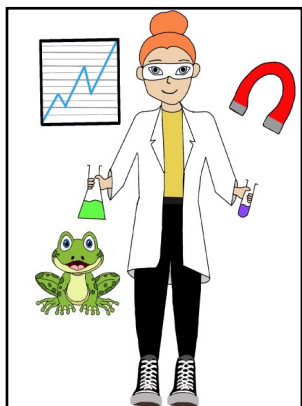




Knowledge Organiser

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Enquiry Question

What does a plant need to grow and survive?

Substantive Knowledge (key facts)

- The roots grow into the ground- they are responsible for getting water and minerals to the plant as well as anchoring it to the ground.
- The stem/trunk carries the water and nutrients up to the leaves.
- Leaves use sunlight, air, and water to produce the plant's food.
- The flower has male and female parts which work together to make seeds.
- All seeds need soil, water, oxygen, and the right temperature before they will grow.
- Seeds are dispersed in different ways such as through an animal's digestive system or by wind.

What should I already know?

- I know that seeds and bulbs grow into mature plants.
- I know that plants need light, water and a suitable temperature to grow and stay healthy.
- I know that a plant is a living thing.
- I can identify and describe the basic structure of a variety of common flowering plants, including trees.

Concept

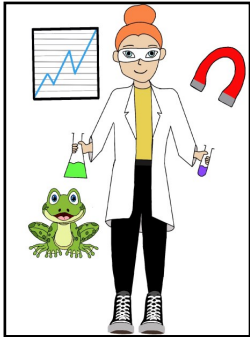


Scientific skills I am practising

- I can ask relevant questions and use different types of scientific enquiry to answer them, including comparative and fair tests.
- I can record findings and present data using simple scientific language, explanations, diagrams, pictures, keys, bar charts and tables.
- I make careful and systematic observations and take accurate measurements using standard units.
- I can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.
- I can record findings using bar charts keys, tables and labelled diagrams.

Sequence of learning

1)	Describe and explain how seeds are dispersed and then germinate.
2)	Describe the roots and stem(s) of plants and explain their functions, including water transportation.
3)	Explain the function of flowers and identify their parts.
4)	Describe the process of pollination.
5)	Identify the parts of a leaf and explain the primary function of leaves.



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Key vocabulary

Tier 2

Fertilisation—The act of fertilisation is required for a seed to be produced.

Life cycle—The process of what happens to a plant through its life.

Nutrients—A plant needs to absorb nutrients to survive.

Tier 3

Germination—When a seed begins to grow

Water transportation—movement of water through a plant.

Seed dispersal—how plants disperse their seeds / spread their seeds for them to begin to grow.