

The Leaf

Chapter 14: The Leaf · Topic 1

Key Concept

A leaf has a broad, flat blade to capture sunlight, and veins that transport water and nutrients throughout the leaf.

The green colour of leaves comes from chlorophyll, a pigment that absorbs sunlight for photosynthesis.

Tiny pores called stomata, usually on the underside of leaves, allow gases like carbon dioxide and oxygen to pass in and out.

Leaves come in different shapes and sizes, each adapted to the plant's environment and specific needs.

Quick Revision Notes

- Leaves have a broad, flat blade.
- Veins transport water and nutrients in leaves.
- Chlorophyll gives leaves their green colour.
- Chlorophyll absorbs sunlight for photosynthesis.
- Stomata are tiny pores on leaves.
- Stomata allow gas exchange.
- Leaves vary in shape and size.
- Leaf shape adapts to the plant's environment.

Practice Questions

- 1 Draw and label the parts of a leaf.
- 2 Discuss why leaves are green.
- 3 Research what stomata do.
- 4 Find leaves of different shapes and compare them.
- 5 Explain how a leaf helps a plant make food.
- 6 Discuss why leaves need sunlight.