



Grade 5 Science — Unit 1: Plant Parts



Parts of a Flowering Plant and Their Functions



Parts of the Plant

Learning Objective:
I can identify and explain the main parts of a flowering plant and their functions.



Parts of the Flower

Leaves

- Make food for the plant through photosynthesis
- Use sunlight, water, and carbon dioxide to make food

Flower

- Enables reproduction of the plant
- Attracts pollinators and produces seeds

Stem

- Supports the plant and holds it upright
- Transports water and nutrients from the roots to the leaves and flower

Roots

- Absorb water and minerals from the soil

Soil

- Anchor the plant firmly in the ground

Carpel (Female Part)

- **Stigma**
Sticky top that traps pollen
- **Style**
Tube that pollen travels down to the ovary

Petals

- Colourful petals attract bees, butterflies and other pollinators



Stamen (Male Part)

- **Anther**
Produces pollen
- **Filament**
Thin stalk that holds the anther upright

Sepals

- Small green parts that protect the flower bud before it opens

- **Ovary**
Contains ovules that develop into seeds



Key Vocabulary:



Photosynthesis

How leaves make food using sunlight



Pollination

Pollen moves from the anther to the stigma



Fertilisation

Pollen reaches the ovary to form seeds



Seed

Develops in the ovary and grows into a new plant



Fun Fact! After pollination, the ovary grows into a fruit that protects the seeds until they are ready to grow into new plants!