

Golden Concepts

Asking scientific questions and making observations

Planning an investigation

Collecting, presenting and interpreting data

Errors and uncertainty

Science in our world

Key Vocabulary

Xylem	Vessel found within plants that transport water from root to leaves
Phloem	Vessels found in plants that transport foods produced in photosynthesis
Osmosis	The movement of water across a partially permeable membrane
Conservation	The process of protecting things found in nature
Sexual reproduction	Reproduction that occurs between two individuals of the same species
Asexual reproduction	Reproduction that occurs in one individual who may have the ability to make both male and female sex cells
Biodiversity	The number of living organisms within a habitat. The variety of life.
Habitat	The place in which an organism lives
Deforestation	The process of removing plant life (trees)
Drugs	Chemical that effects the normal function of your body
Ecosystem	The community of living things and how the interact with non-living things e.g. weather

Plants 8/9 - Knowledge Organiser

Plant Genetics and Evolution:

- Introduction to plant genetics.
- How plants reproduce sexually and asexually.
- Evolutionary aspects of plants.

Human Impact:

- Human uses of plants (food, medicine, materials).
- Impact of human activities on plant ecosystems.
- Conservation of plant species and biodiversity.

Transport in plants:

- Osmosis
- Xylem and Phloem

