Year 9 Biology Big Picture

Ballymena Academy

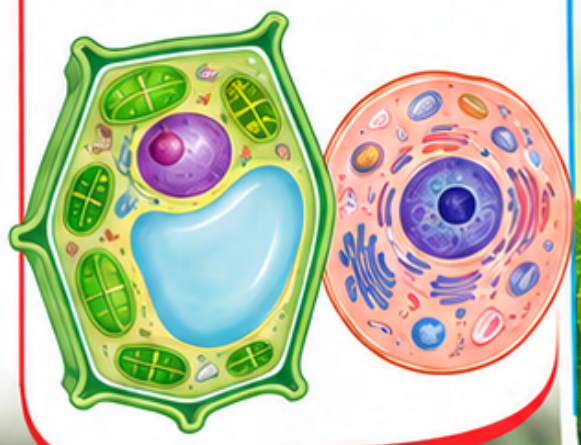
Care, Engage, Excel, Respect

Building knowledge today for a healthier, greener tomorrow

Discover
Understand
Make a difference

1 Cells and Plant Reproduction

- ✓ Animal and plant cell structure and function
- ✓ Specialised plant cells
- ✓ Microscopes and magnification
- ✓ Preparing and viewing slides
- ✓ Plant reproduction (including flowers, pollination, fertilisation, seed and fruit formation)



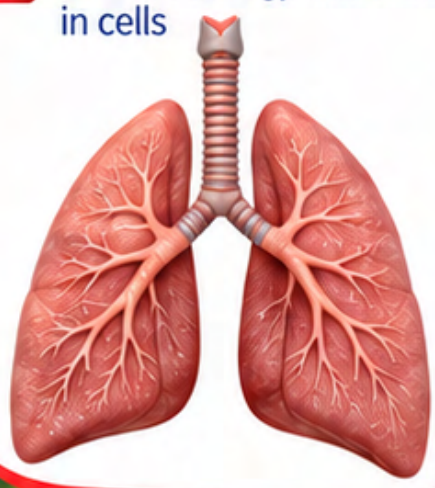
2 Photosynthesis

- ✓ What photosynthesis is and why it is important
- ✓ Where it happens (chloroplasts)
- ✓ Required raw materials
- ✓ Products and their uses in plants
- ✓ Investigating photosynthesis



3 Gas Exchange and Respiration

- ✓ Exchange of gases in plants and animals
- ✓ Adaptations for efficient gas exchange
- ✓ The human respiratory system
- ✓ Mechanism of breathing
- ✓ Aerobic and anaerobic respiration
- ✓ Word equations
- ✓ Uses of energy released in cells



4 Looking at Life

- ✓ Using microscopes to look at a range of cells and organisms
- ✓ Plant and animal cells in more detail
- ✓ Bacteria, fungi, protists, plants and animals (the five kingdoms)
- ✓ Comparing different organisms
- ✓ Using keys to identify organisms



"Small things make a big difference"

EXPLORE LEARN GROW CARE