

# Practice and Revision - The Cell

Chapter 16: The Cell · Topic 2

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## Key Concept

Cells have a cell membrane (outer boundary), cytoplasm (jelly-like substance inside), and a nucleus (control centre) in most cells.

Plant cells have additional structures, like a cell wall (rigid outer layer) and chloroplasts (for photosynthesis), which animal cells lack.

Cells can be seen only under a microscope, as they are too small to see with the naked eye.

Understanding cells helps us learn about how living things grow, function, and reproduce at the most basic level.

## Quick Revision Notes

- The cell is the basic unit of life.
- All living things are made of cells.
- Cells have a membrane, cytoplasm and nucleus.
- Plant cells have a cell wall additionally.
- Plant cells have chloroplasts for photosynthesis.
- Animal cells lack cell walls and chloroplasts.
- Cells are seen only under a microscope.
- Cells are key to growth and life functions.

## Practice Questions

- 1 Draw and label a plant cell.
- 2 Draw and label an animal cell.
- 3 Discuss the difference between plant and animal cells.
- 4 Research what a microscope is used for.
- 5 Explain the role of the nucleus.
- 6 Discuss why chloroplasts are important for plants.