

# Living World and Classification of Microbes

Chapter 1: Living World and Classification of Microbes · Topic 1

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## Key Concept

Bacteria are single-celled microorganisms, some beneficial (helping digestion) and others harmful (causing diseases like tuberculosis).

Viruses are microscopic agents that can only reproduce inside living host cells, causing diseases like influenza and common cold.

Fungi include yeasts and moulds, some beneficial (used in bread-making) and others harmful (causing infections or crop damage).

Protozoa are single-celled organisms, some causing diseases like malaria, while others play important roles in ecosystems.

## Quick Revision Notes

- Bacteria: single-celled, beneficial or harmful.
- Beneficial: aid digestion. Harmful: cause disease.
- Viruses: reproduce only inside host cells.
- They cause flu, common cold.
- Fungi: yeasts, moulds.
- Beneficial: bread-making. Harmful: infections.
- Protozoa: single-celled organisms.
- Some cause malaria, others aid ecosystems.

## Practice Questions

- 1 Classify four microbes into their groups.
- 2 Discuss a beneficial and harmful bacteria example.
- 3 Research how viruses reproduce.
- 4 Discuss fungi's role in bread-making.
- 5 Research malaria and its cause.
- 6 Explain the four microbe classifications.