

The nature and variety of living organisms

Variety of organisms

Characteristics of living things

- Nutrition, respiration
- Excretion, response
- Movement, control
- Reproduction, growth

Plants

- Multicellular
- Chloroplasts, cellulose wall
- Starch or sucrose

Animals

- Multicellular
- No cell wall
- Nervous co-ordination
- Glycogen

Fungi

- Hyphae and mycelium
- Chitin wall
- Saprotrophic nutrition
- Mucor, yeast

Protoctists

- Single-celled
- Amoeba, Chlorella
- Plasmodium causes malaria

Bacteria

- Prokaryotic, no nucleus
- Circular chromosome, plasmids
- Lactobacillus, Pneumococcus

Viruses

- Not living
- Protein coat, DNA or RNA
- Reproduce inside cells
- TMV, influenza, HIV