

LIFE SCIENCE NOTES TERM 1 +2

MICRO ORGANISMS

Basic structure of viruses:

Structure of bacteriophage



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A bacteria has an inner core of either DNA or RNA. Some viruses with RNA, such as HIV, are called retroviruses. The nucleic acid is surrounded by an outer protein coat or capsule, which protects the viral genetic material. Viruses have no cytoplasm and have no membrane bound organelles.

Viruses have the following characteristics:

- Viruses are acellular as they are not complete cells
- Viruses are extremely small and can only be seen using an electron microscope.
- Viruses have many different shapes.
- Viruses do not perform any of the metabolic reactions of living organisms.
- Viruses cannot reproduce unless they invade a host cell.
- Viruses are parasitic on plants, animals, protists and bacteria.
- Viruses have the ability to assemble themselves
- Most viruses are pathogens as they cause disease.

BACTERIA:

Basic structure of bacteria:

Bacteria are unicellular organisms that are classified as prokaryotes. This means they do not contain membrane bound organelles such as nucleus, chloroplast etc. Their DNA floats freely in the cytoplasm. The cell wall is lined with a cell membrane and often covered by a slime capsule to prevent it from drying out. In many pathogenic bacteria the slime capsule also serves as a barrier against phagocytes. Some bacteria have flagella that are used for locomotion. Bacteria also have hollow, hair like structures called pili that are used to attach to other cells.

Bacteria have the following characteristics:

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