

20.1 Viruses

Daily Objectives:

- **Viruses (virology)**
- **Bacteria (bacteriology)**
- **Parasites (parasitology)**
- **Are viruses alive?**

Essential Question:

What is a Virus?



How does a virus work?



Structure and Composition



Viral Infections



- A virus is a **non-living** particle made up of **genetic** and **nucleic acids** (sometimes a **lipid envelope**) and is covered with a coating known as the **protein coat**.
 - Viruses can reproduce only by **infecting living cells**.
- Too small to see under a microscope!
- Only discovered in **1897!**
- Most viruses have **proteins** on their surface or **lipids** that **bind to the host cells receptor proteins**.
 - Some also have a **membrane around the capsid**.
 - Complex viruses may have hundreds of genes.
- The proteins "trick" the cell to **put its genetic material into the host cell**.
- Once inside, the viral genes are **expressed and can destroy the cell**.
- Must **bind to the proteins on the host cells**.
- Most viruses infect only a very **specific cell**.
 - Plant viruses infect **plant cells**
 - Most animal viruses infect only **infect those certain species**.
 - Viruses that infect **bacteria** are called **bacteriophages** and only infect **certain types of bacteria**.
- Once inside the cell, the virus uses the host cell's genetic information to copy itself.
 - In a **lytic infection**, a virus **infects and kills other host cells**.
 - In a **lysogenic infection**, a virus **is integrated into the host cells chromosome**.
- About **70 %** of viruses contain RNA rather than DNA.
- In humans, RNA viruses cause a wide range of infections, from relatively **simple colds** to severe cases of **HIV**.

20.1 Virus Cont.



Viruses And Bacteria Guided Study Answers

Akash Tiwari



Viruses And Bacteria Guided Study Answers:

Reviewing **Viruses And Bacteria Guided Study Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Viruses And Bacteria Guided Study Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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