

## 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 And Study Answers

**Akash Tiwari**



## Viruses And Bacteria Guided And Study Answers:

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