

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.



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