

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

J Rink



Viruses And Bacteria Guided Study Answers:

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Table of Contents Viruses And Bacteria Guided Study Answers

1. Understanding the eBook Viruses And Bacteria Guided Study Answers
 - The Rise of Digital Reading Viruses And Bacteria Guided Study Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Viruses And Bacteria Guided Study Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Viruses And Bacteria Guided Study Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Viruses And Bacteria Guided Study Answers
 - Personalized Recommendations
 - Viruses And Bacteria Guided Study Answers User Reviews and Ratings
 - Viruses And Bacteria Guided Study Answers and Bestseller Lists
5. Accessing Viruses And Bacteria Guided Study Answers Free and Paid eBooks
 - Viruses And Bacteria Guided Study Answers Public Domain eBooks
 - Viruses And Bacteria Guided Study Answers eBook Subscription Services
 - Viruses And Bacteria Guided Study Answers Budget-Friendly Options

6. Navigating Viruses And Bacteria Guided Study Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Viruses And Bacteria Guided Study Answers Compatibility with Devices
 - Viruses And Bacteria Guided Study Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Viruses And Bacteria Guided Study Answers
 - Highlighting and Note-Taking Viruses And Bacteria Guided Study Answers
 - Interactive Elements Viruses And Bacteria Guided Study Answers
8. Staying Engaged with Viruses And Bacteria Guided Study Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Viruses And Bacteria Guided Study Answers
9. Balancing eBooks and Physical Books Viruses And Bacteria Guided Study Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Viruses And Bacteria Guided Study Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Viruses And Bacteria Guided Study Answers
 - Setting Reading Goals Viruses And Bacteria Guided Study Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Viruses And Bacteria Guided Study Answers
 - Fact-Checking eBook Content of Viruses And Bacteria Guided Study Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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