Name:	Per: #	

#### Unit 6: Bacteria and Viruses + Intro to Biotechnology Study Sheet

**DIRECTIONS:** This worksheet is a guide for your studying and represents what your Biology teachers expect you to have learned and be able to do by the end of this unit. To receive full credit, define all key terms *in your own words* and write your answers to each learning target on a separate piece of paper. Full sentences are *not* required unless otherwise indicated. This worksheet will be collected the day of the unit exam together with your H packet.



"They've been phonetically modified."

#### Key Terms:

Lytic cycle Lysogenic cycle Bacteriophage Plasmid Capsid

Retrovirus Reverse transcriptase HIV AIDS Pathogen Restriction enzyme Restriction site Vector Gene of interest Recombinant plasmid Transgenic organism Selective breeding Hybridization Gel electrophoresis

Learning Target You should be able to	Date What 8 page dates might help me?	Pages What H pages in my binder might help me?
Describe how viruses and bacteria differ.		
How do viruses reproduce? Describe how new viruses are produced and		
the difference between the two replication cycles.		
What is a prophage / provirus?		
How do bacteria reproduce? Include a labeled diagram to illustrate the		
Describe the structure of a virus, include a labeled diagram.		
Describe the structure of a bacteria. Include a labeled diagram.		
What characteristics of living things to viruses lack?		
What characteristics of living things to viruses lack?		
Describe the method of infection of HIV		
<ul> <li>How does HIV represent a violation of the Central Dogma of Molecular</li> </ul>		
Biology?		
<ul> <li>What is unique about the structure of HIV that allows it act as a</li> </ul>		
retrovirus?		
<ul> <li>How does AIDS differ from HIV?</li> </ul>		
<ul> <li>Why is HIV so hard to treat?</li> </ul>		
<ul> <li>Why are some individuals "immune" to HIV?</li> </ul>		
Explain the function of vaccines.		-
<ul> <li>How do vaccines prevent an individual from infection?</li> </ul>		
<ul> <li>Can vaccines be used to treat viral diseases once they have been</li> </ul>		
contracted? Why/why not?		
Explain how bacteria may develop resistance.		1
<ul> <li>We say antibiotics select for resistant bacteria. What does this mean?</li> </ul>		
<ul> <li>Why are antibiotic-resistant bacteria such a concern?</li> </ul>		
<ul> <li>What causes bacteria to develop resistance?</li> </ul>		
5%		

# **Virus Diseases Study Guide Answers**

**Mike Jess** 

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## **Table of Contents Virus Diseases Study Guide Answers**

- 1. Understanding the eBook Virus Diseases Study Guide Answers
  - The Rise of Digital Reading Virus Diseases Study Guide Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Virus Diseases Study Guide 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 Virus Diseases Study Guide Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Virus Diseases Study Guide Answers
  - Personalized Recommendations
  - Virus Diseases Study Guide Answers User Reviews and Ratings
  - Virus Diseases Study Guide Answers and Bestseller Lists

- 5. Accessing Virus Diseases Study Guide Answers Free and Paid eBooks
  - Virus Diseases Study Guide Answers Public Domain eBooks
  - Virus Diseases Study Guide Answers eBook Subscription Services
  - Virus Diseases Study Guide Answers Budget-Friendly Options
- 6. Navigating Virus Diseases Study Guide Answers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Virus Diseases Study Guide Answers Compatibility with Devices
  - Virus Diseases Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Virus Diseases Study Guide Answers
  - Highlighting and Note-Taking Virus Diseases Study Guide Answers
  - Interactive Elements Virus Diseases Study Guide Answers
- 8. Staying Engaged with Virus Diseases Study Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Virus Diseases Study Guide Answers
- 9. Balancing eBooks and Physical Books Virus Diseases Study Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Virus Diseases Study Guide Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Virus Diseases Study Guide Answers
  - Setting Reading Goals Virus Diseases Study Guide Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Virus Diseases Study Guide Answers
  - Fact-Checking eBook Content of Virus Diseases Study Guide 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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