

Student Exploration: Virus Lytic Cycle

Vocabulary: bacteriophage, capsid, host cell, lyse, lytic cycle, virus

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. A computer virus is a program that can copy itself and infect a computer without the permission of the owner. How do you think a computer virus compares to a real virus?

A computer virus enters a computer, a non-living object, whereas a real virus enters a living organism / being. Real life viruses kill the host cell/replicate to kill more and take over the body, while a computer virus

2. You have been most likely infected with a virus, such as the cold virus or flu virus. How did the virus affect you?

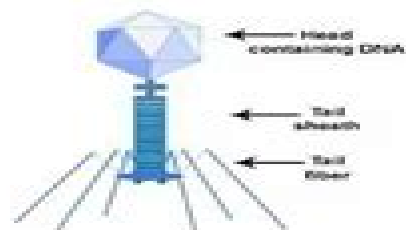
You will see physical symptoms from being infected with a virus, like a cough, stuffy nose, sore throat, headaches, stomach pain, nausea, etc.

3.

Gizmo Warm-up

A **virus** is a microscopic particle that can infect a cell. Viruses are primarily composed of a protein coat, called a **capsid**, and nucleic acid. In the *Virus Lytic Cycle Gizmo™*, you will learn how a virus infects a cell and uses the cell to produce more viruses.

1. Viruses are extremely small. A typical virus is about 100 times smaller than a single cell, such as a bacterium. Label the virus and a bacterial cell in the image at right.



2. **Bacteriophages** are viruses that infect bacteria. Based on the diagram at left, label the head, tail, tail fibers, and the strand of nucleic acid in the image at right.



Activity A:

Lytic cycle

Get the Gizmo ready:

- If necessary, click **Reset** (↺).



Introduction: Unlike living organisms, viruses cannot reproduce on their own. Instead, viruses infect **host cells**, taking over the cell's machinery to produce more viruses. This process is called the **lytic cycle**.

Question: How does a viral infection spread?

Virus Lytic Cycle Explore Learning Answer Key

Daniel F McAuley



Virus Lytic Cycle Explore Learning Answer Key:

Virus Lytic Cycle Explore Learning Answer Key Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Virus Lytic Cycle Explore Learning Answer Key**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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