

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?

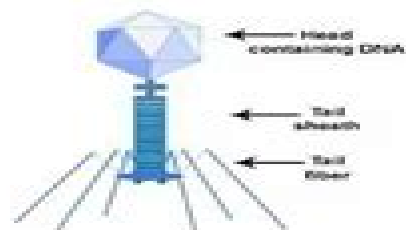
You will see physical symptoms from being infected with a virus, like a cough, stuffy nose, sore throat, headaches, stomach pain, nausea, etc.

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

Yicheng Fang



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EBOOK: Biology Peter Raven, George Johnson, Kenneth Mason, Jonathan Losos, Susan Singer, 2013-02-16 Committed to Excellence in the Landmark Tenth Edition This edition continues the evolution of Raven Johnson's Biology The author team is committed to continually improving the text keeping the student and learning foremost We have integrated new pedagogical features to expand the students learning process and enhance their experience in the ebook This latest edition of the text maintains the clear accessible and engaging writing style of past editions with the solid framework of pedagogy that highlights an emphasis on evolution and scientific inquiry that have made this a leading textbook for students majoring in biology and have been enhanced in this landmark Tenth edition This emphasis on the organizing power of evolution is combined with an integration of the importance of cellular molecular biology and genomics to offer our readers a text that is student friendly and current Our author team is committed to producing the best possible text for both student and faculty The lead author Kenneth Mason University of Iowa has taught majors biology at three different major public universities for more than fifteen years Jonathan Losos Harvard University is at the cutting edge of evolutionary biology research and Susan Singer Carleton College has been involved in science education policy issues on a national level All three authors bring varied instructional and content expertise to the tenth edition of Biology **Biology Ebook** Raven, 2016-05-16 Biology Ebook

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In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Virus Lytic Cycle Explore Learning Answer Key**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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