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Name _____ Date _____

Bacteria and Viruses



What are bacteria and viruses and why are they important?

Before You Read

Before you read the chapter, think about what you know about bacteria and viruses. In the first column, write three things you already know about these organisms. In the second column, record three things that you would like to learn more about. When you have completed the chapter, think about what you have learned, and complete the **What I Learned** column.

K What I Know	W What I Want to Learn	L What I Learned

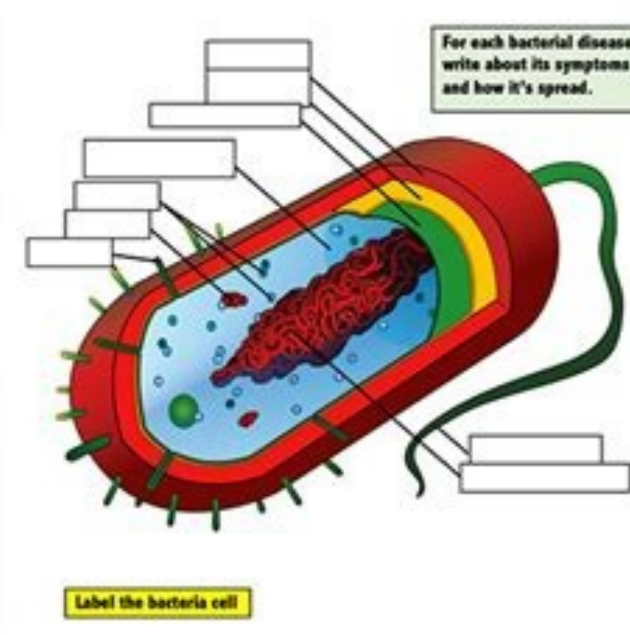
Chapter Vocabulary

Lesson 1	Lesson 2	Lesson 3
NEW bacterium flagellum fission conjugation endospore	NEW decomposition nitrogen fixation bioremediation pathogen antibiotic pasteurization	NEW virus antibody vaccine REVIEW mutation

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A Lesson Content Vocabulary page for each lesson is provided in the Chapter Resources Files.

Bacterial diseases



For each bacterial disease write about its symptoms and how it's spread.

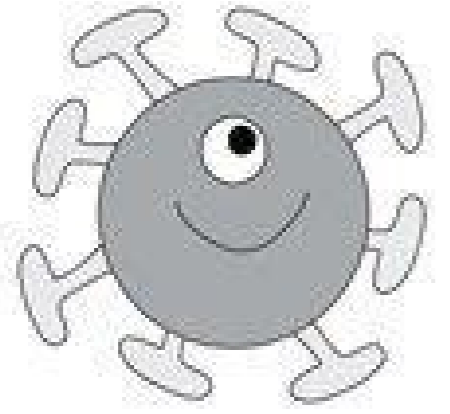
Salmonella:

Giardia:

Label the bacteria cell

Name _____

Viruses



Viruses are very tiny particles that can infect animals, plants, or people and make them sick. Viruses are protected by a coating of protein. Viruses hijack the cells of living organisms and inject their genetic material right into the cell and take over. They use the cell to make more viruses and take over more cells. They cannot survive without a host. Viruses can float through the air, survive in water, or even on the surface of your skin. They can be passed from one person to another by shaking hands, touching food, through water, or through the air when a person coughs or sneezes.

1. Viruses can infect _____
2. They are protected by a _____
3. They can't survive without a _____
4. They're spread by _____



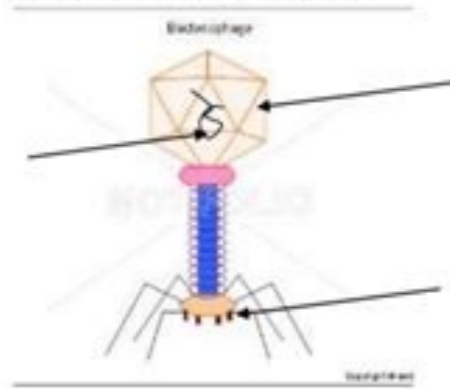
Chapter 18: Viruses and Bacteria

Section 18.1

1. What is a virus?
2. What are bacteria?

Section 18.2: Viruses

3. Viruses have very simple structure. A virion is made up of a **protein** _____ surrounding their genetic material.
4. Viruses can only be reproduced after they have infected a living _____ cell.
5. Label the diagram below of a **bacteriophage** shown in Figure 18.5



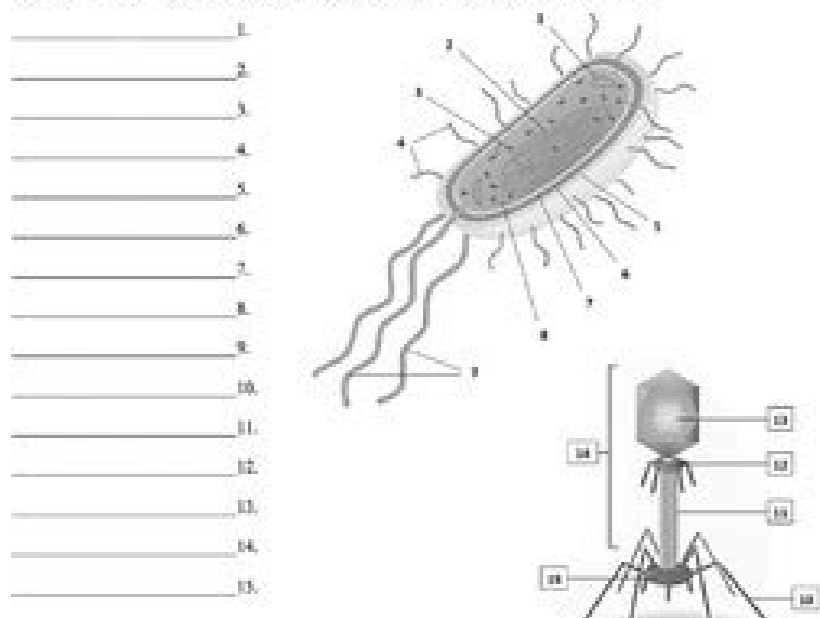
6. Discuss the **Lytic infection pathway** shown in Figure 18.6.

7. Discuss a **Lysogenic infection pathway** also shown in Figure 18.6

8. How does the lysogenic pathway differ from the lytic pathway?

Unit Test: Viruses and Bacteria

For questions 1 – 15, label each numbered structure in the diagrams below.



Questions 16 – 26: Fill in the Blanks

16. Name given to the domain of prokaryotes that can live in extremely harsh conditions.
17. The type of relationship between two organisms where one benefits, and the other is harmed.
18. List four factors that provide the best environment for bacterial growth. (Use blanks 19 – 21 for your answers.)
- 19.
- 20.
- 21.

Viral bacterial diseases. What is a virus worksheet. Viral and bacterial diseases list.

Antibiotic resistance takes place naturally, but is accelerated by improper use and excessive use of antibiotics, poor prevention of infections and poor control. These daughter cells are actually clones of the original cell. Influence viruses are widespread to touch and sneeze. Some living things, like bacteria, are cells. The cell grows longer and splits into two cells, each of which contains a copy of DNA identical to that of the parent cell. When a disease can be widespread by person to person, let's say it's contagious. Cytoplasm The cytoplasm, or protoplasm, is the place where the functions for cell growth, metabolism and replication are performed. Bacteria can also live in symbiotic and parasitic relationships with plants and animals. Complete list of worksheets including worksheets Bacteria and viruses made more? Provide labels for parts and indicate the function or purpose of each structure. Bacteria are microscopic and single-cellular organisms that lack a nucleus and can thrive in different environments. Most viruses have a diameter between 20 and 300 nanometers. Bacteria: capsule structure Some species of bacteria have a third protective coating. Coccus (plural: Cocci) is a round cell, sometimes slightly flattened when they are adjacent to each other. Vaccines work because "teach" your immune system recognize a particular type of virus and fight it before it has the chance to proliferate. Virus: Basic information viruses are small infectious agents that replicate within the living cells of an organism. Immune responses can be produced by vaccines. We used their method of incorporating viral DNA into host cells as a model to introduce beneficial genes in host cells. Should I? Viruses are Discovered for the first time after the development of a porcelain filter. Bacterial infections and viral infections must also be treated differently. The most common fatal bacterial diseases are respiratory breathing These are the worksheets of bacteria and viruses ready to use that are perfect to teach students bacteria and viruses that can cause mild to severe infections, but they are different from each other. To continue enjoying our site, we ask you to confirm your identity as a human being. The cytoplasm is a master-like gel composed of water, enzymes, nutrients, waste and gas. Yogurt, cheese, pickles and soy sauce are all made with specific strains of bacteria that help preserve food while giving it a unique flavor. Click to download the free sample version Download the sample often misunderstood as similar things, both bacteria and viruses can cause mild to severe infections, but they are different from each other. Bacterial cells are generally surrounded by two protective coatings: (1) an external cell wall and (2) a membrane of internal cells. Some viruses avoid immune responses and cause chronic infections. The capsule maintains the bacterium to dry and protects the bacterium from the phagocytosis by large organisms. It also plays a role in the functioning of our immune system. Bacteria can exist in the ground, in water, in the acid hot springs, radioactive waste and the deep biosphere of the earth crust. Viral infections cause an immune response that usually eliminates the infected virus. Spirit (plural: spirilla) is a curved bacterium that can vary from a gently curvature shape to a spiral antibiotic resistance similar to corkscrew according to the World Health Organization (WHO), resistance to antibiotics is one of the largest threats For global health. The vast majority of bacteria in the body is harmless, but there are still several species of bacteria that are pathogens and can cause infectious diseases. Key facts and bacteria Basic information The bacteria are a type of biological mobile. This is composed of complex polysaccharides or carbohydrates. In humans and in most animals, the greatest number of it exists in the intestine, and a large number exists on the skin. Living things respond to their environment, and there is debate that viruses are or not. This is the quantity of time when a contagion must be in your body before you make you sick. Thank you so much for your cooperation. Antibiotic-resistant bacteria evolved as a result of a combination of natural selection, as described by Charles Darwin, and a recently intended evolutionary mechanism called horizontal gene transfer. Bacillus (plural: bacilli) is a rod-shaped bacterium. Basic bacteria in the intestine normally maintain healthy epithelium cells by providing them with short-chain fatty acids and other nutrients they need. Infectious diseases caused by bacteria include cholera, syphilis, anthrax, leprosy and bubonic plague. Our customer support team will examine your relationship and will be in touch. Furthermore, they are generally not able to reproduce outside a host and are inactive when not within a living cell. For example, bacteria in our digestive system, called the **6**

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