⋖	
Н	Į
т.	ł
-	ı
	)
ø	)
	)
a	
	J
Ë	1
_	١
•	4
U	
Ø	)
n	١
_	١
•	١
	4

Name	Date	Class

### Viruses and Bacteria • Guided Reading and Study

# **Viruses**

This section describes what viruses are, what they look like, and how they multiply.

## **Use Target Reading Skills**

As you read, make two flowcharts that show how active and hidden viruses multiply. Put the steps in the process in separate boxes in the flowchart in the order in which they occur.

#### **How Active Viruses Multiply**

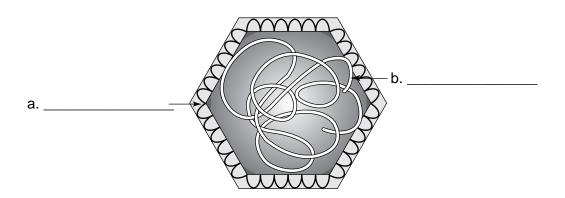
Na	ne Date Class
Viru	uses and Bacteria • Guided Reading and Study
Vii	'USES (continued)
Wł	nat Is a Virus?
1.	Why do biologists consider viruses to be nonliving?
2.	Is the following sentence true or false? Viruses multiply the same way as other organisms
3.	Circle the name of a living thing that provides energy for a virus or an organism.  a. parasite b. host c. bacteriophage d. particle
4.	Viruses act like because they destroy the cells in which they multiply.
5.	What organisms can viruses infect?
6.	Is the following sentence true or false? Each virus can enter only a few types of cells in a few specific species.
7.	Is the following sentence true or false? All viruses have the same shape.
8.	A virus that infects bacteria is called a(n)
9.	Is the following sentence true or false? Viruses are much smaller than bacteria
10.	Because viruses are so small, they are measured in units called .
11.	How are viruses named?
12.	Circle the letter of each sentence that is true about viruses.  a. They are larger than cells.  b. They need to be inside a living cell in order to reproduce.  c. They can be named after people.  d. They infect only animals.

Name \_\_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

Viruses and Bacteria • Guided Reading and Study

### The Structure of Viruses

**13.** Label the two basic parts of a virus in this diagram.



14.	What are two	functions	of a	virus's	protein	coat?
T T.	viilat are two	Idiletions	OI u	VII UU U	protein	cout.

a.\_\_\_\_\_

**15.** Is the following sentence true or false? The shape of the proteins allows the virus's coat to attach to only certain cells in the host.

## **How Viruses Multiply**

Match the kind of virus with the way it multiplies in a cell. Viruses may be used more than once.

### **How It Multiplies**

- **16.** The virus's genetic material becomes part of the cell's genetic material.
- **17.** The virus immediately begins to multiply after entering cell.
- \_\_\_\_ **18.** The virus stays inactive for a long time.

#### Viruses

- **a.** active virus
- b. hidden virus

Naı	me Date Class				
Viru	uses and Bacteria   Guided Reading and Study				
Ho	ow Viruses Multiply (continued)				
19.	Is the following sentence true or false? When the virus is active, the cell makes the virus's proteins and genetic material and new viruses are made				
Vir	uses and the Living World				
20.	. What are two illnesses in humans caused by viruses?				
21.	Is the following sentence true or false? Viruses can cause diseases only in humans				
22.	How are viruses used for gene therapy?				