

Name:

Date:

Period:

Immunity; WebQuest

Part 1 Viruses

Go to <http://science.howstuffworks.com/virus-human.htm>

1. Name 5 diseases caused by viruses

A.

B.

C.

D.

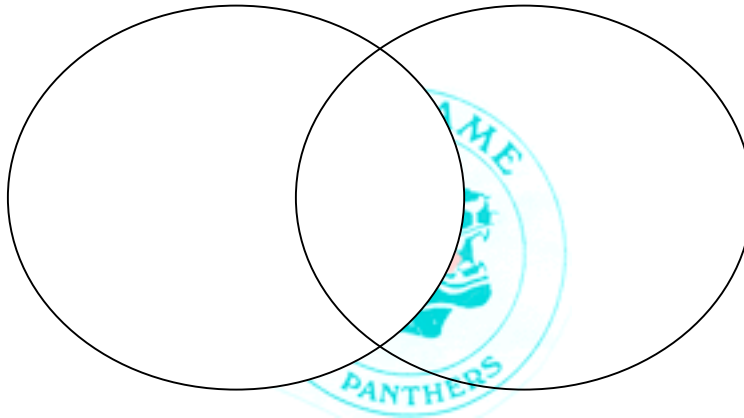
E.

At the bottom **Click on Next Page** → What is a Virus?

2. A quick compare/contrast of a bacteria and virus

bacteria

virus



3. Draw a virus and label the parts from the description on this page (What is a Virus)

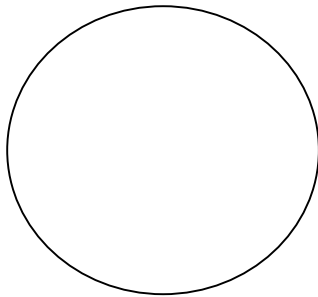


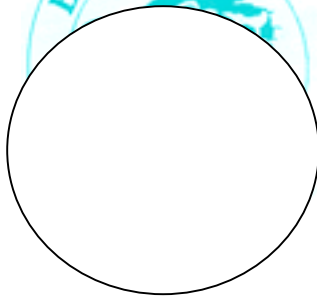
Click on next page → How Viruses Infect You.

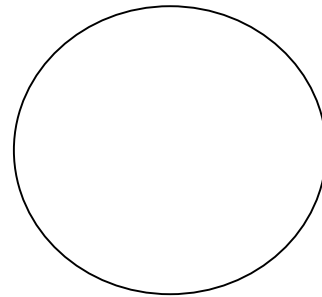
4. What are the 6 steps of the Lytic Cycle (the viral reproductive cycle)

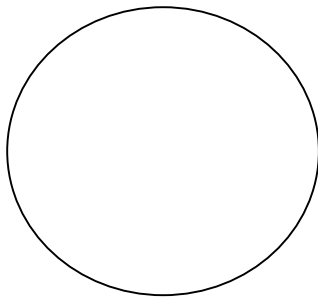
- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

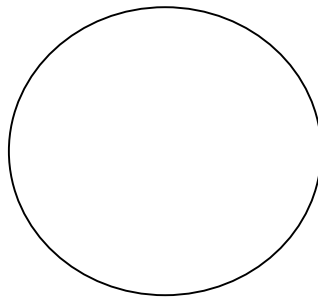
5. Draw the stages of the Lytic Cycle in the circles below. Label virus and cell parts & title each stage.











Part 2 HIV Retrovirus Animation

Go to <http://www.whfreeman.com/kuby/content/anm/kb03an01.htm>

View the animation and answer the following questions

1. What is a retrovirus? _____
2. What infamous virus belongs to this class?

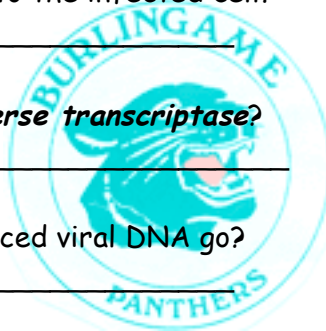
3. How does infection begin?

4. What from the virus goes into the infected cell?

5. What is the function of *reverse transcriptase*?

6. Where does the newly produced viral DNA go?

7. What does the viral DNA (proviral DNA) do? _____



The remainder of the animation is detailed. Watch it and see if you can get the meaning.

What happens on the ribosomes of the cell's ER (endoplasmic reticulum)?

What is the function of the cell's golgi apparatus in the making of a virus?

What eventually happens to the infected cell? The Viruses?

8. Use the above questions to help you summarize the remainder of the animation.

Part 3 Prokaryotes

Go to <http://www.whfreeman.com/kuby/content/anm/kb03an01.htm>

1. Name several characteristics of a prokaryotic cell.
 - a.
 - b.
 - c.
 - d.
 - e.
 - f.

2. *If you were a bacteria* - describe at least 5 things about yourself

- i.
- ii.
- iii.
- iv.
- v.

3. What are 5 interesting facts about the Archaea bacteria *Methanococcus jannaschii*?

- i.
- ii.
- iii.
- iv.
- v.



Part 4 The Immune Response

Go to <http://www.biology.arizona.edu/immunology/tutorials/AIDS/response.html>

1. Describe the ***Innate Immune Response (non-specific)***. Give a detailed description!

2. Describe the ***Adaptive Immune System (specific)***. Give a detailed description!