

BOZEMAN BIOLOGY VIDEO GUIDE—Viral Replication

Name _____ Date _____ Per _____

1. What two main structures are viruses composed of?

Outline of viral replication:

2. The virus drops off some of its own _____ and then the cell replicates it for the virus. This is called _____!

3. The cell then uses its own machinery again to make mRNA from the viruses' DNA. This is called _____!

4. The mRNA is then transferred out of the nucleus and made into a protein. This is called _____!

5. T/F: Viruses don't have their own machinery to make proteins from DNA. _____

6. T/F: Viruses are alive. _____

7. Why is this mode of viral replication called the Lytic Cycle?

8. RNA viruses have _____ as their genetic material instead of DNA.

8a. These are also known as _____.

8b. What does reverse transcriptase do when it is inserted into the cell with the RNA from the virus?

8c. Why are these viruses so bad?

8d. Give an example of an RNA virus:

8e. What is the good news and the bad news about RNA viruses?

9. Briefly describe the lysogenic cycle:

9a. What is an example of a virus that goes through the lysogenic cycle?