

Virus Replication

Name:

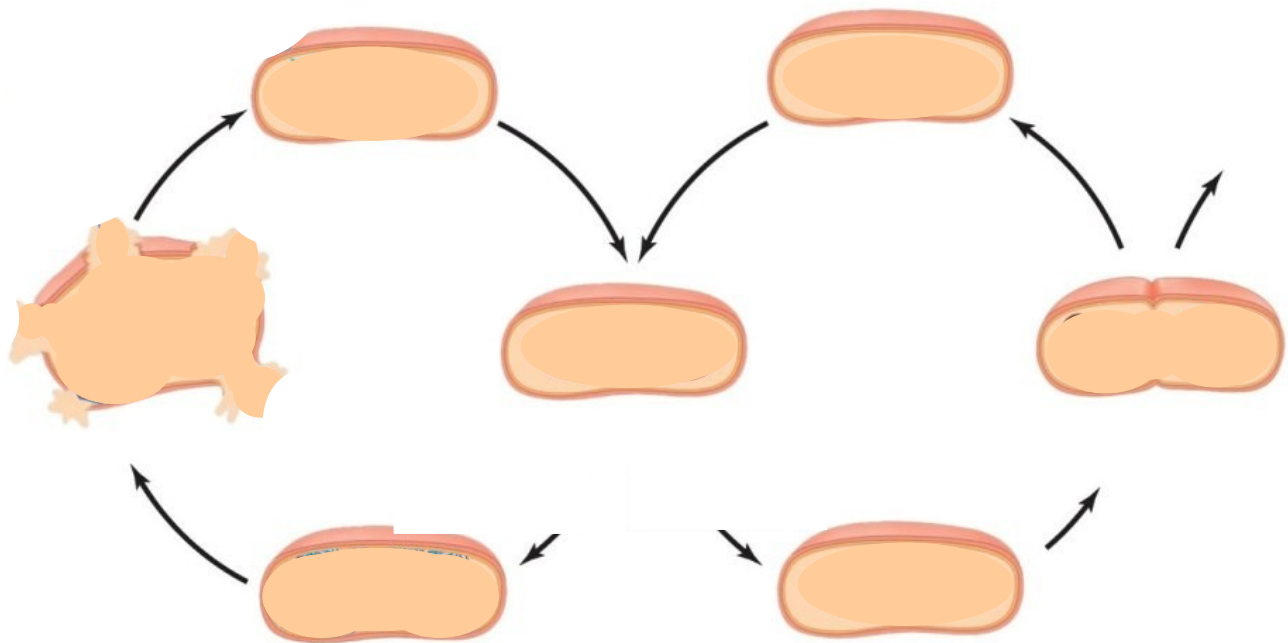
Date:

1. Sketch the stages of a bacteriophage infection in the host cell below.
Label your diagram with the following terms:

Lytic Cycle
Lysogenic Cycle
Bacteriophage
Attachment
Entry

Synthesis
Lysis
Replication
Prophage
Host DNA

Virus DNA
Capsid
Tail
Tail Fibres



2. Individuals with the herpes virus often go long periods of time where they are asymptomatic, then will experience an outbreak and develop symptoms. Explain why this occurs making reference to the life cycles of viruses.

3. What benefit to the virus is there by replicating via the lytic cycle only?

4. What benefit to the virus is there by replicating via the lysogenic cycle?
5. Why are host cells unable to make their own proteins while a virus is replicating?
6. What is a retrovirus and why are they unique?
7. Why must an individual be vaccinated against the influenza virus every year, while other viruses like measles need to be vaccinated against only once?
8. What type of replication pathway would you expect to find in a virus that is very virulent?