

STUDENT WORKSHEET DAY ONE (MODULE I)

BACTERIA AND VIRUSES ANTIBIOTICS AND BACTERIAL RESISTANCE TO ANTIBIOTICS

(1)

1. _____ are made up of genetic material (DNA or RNA) in a protective coat and need another host cell (human or animal) to live and reproduce
2. _____ are independent cells and are able to live and reproduce outside human or animal cells.

(2) List at least 3 diseases that are caused by viruses.

- a. _____
- b. _____
- c. _____

(3) What are 3 possible methods for contracting viruses?

- a. _____
- b. _____
- c. _____

(4) Give 3 examples of where harmless bacteria live and why they are beneficial.

- a. _____
- b. _____
- c. _____

(5) What is the definition of “colonized” bacteria?

(6) List 4 examples of the body’s first-line defense barriers that keep harmful bacteria from entering the body?

- a. _____
- b. _____
- c. _____
- d. _____

Example of Viral Structure

Draw an arrow from the name of each structure in the box to the correct part of this diagram of an Influenza virus.

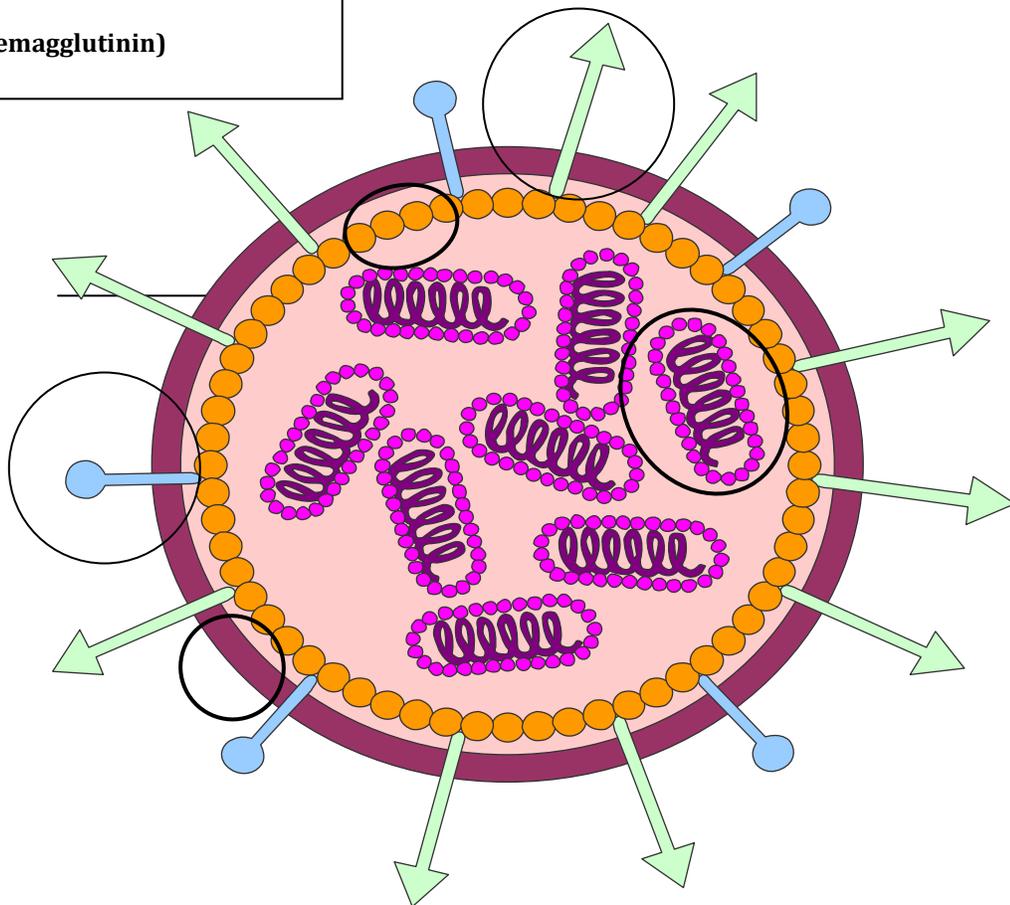
Genetic core material (RNA)

Protein coat

Lipid envelope

N-spike (Neuraminidase)

H-spike (Hemagglutinin)



Example of Bacterial Structure

Draw an arrow from the name of each structure in the box to the correct part of this diagram of a bacterial cell.

Cell membrane
Flagella
Ribosome
Pili

Cell wall
Chromosome
Plasmids

