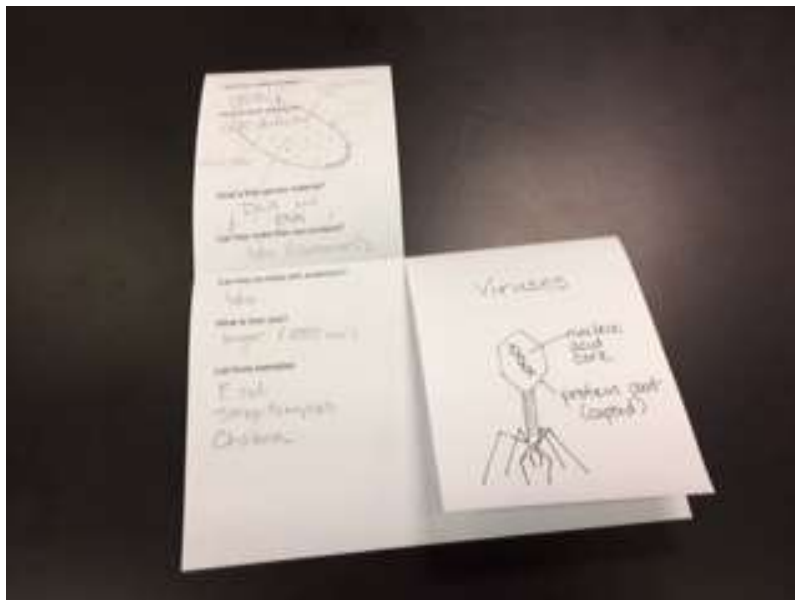


Bacteria/Virus Foldable Directions

Use the information on the other side of these directions to complete a foldable that compares bacteria to viruses.

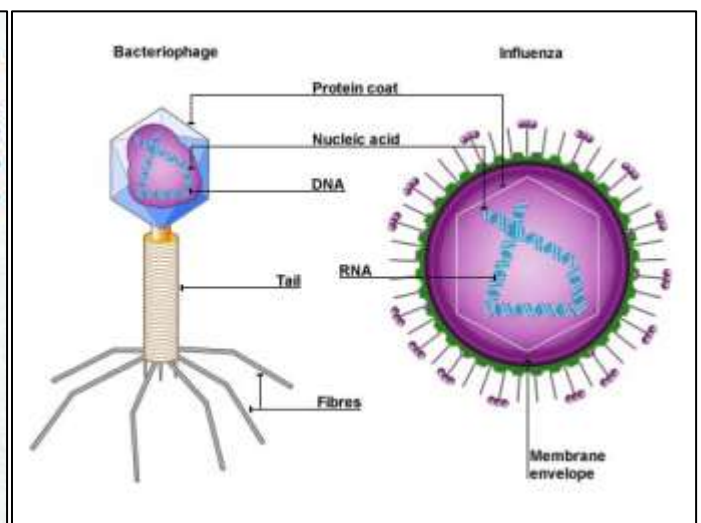
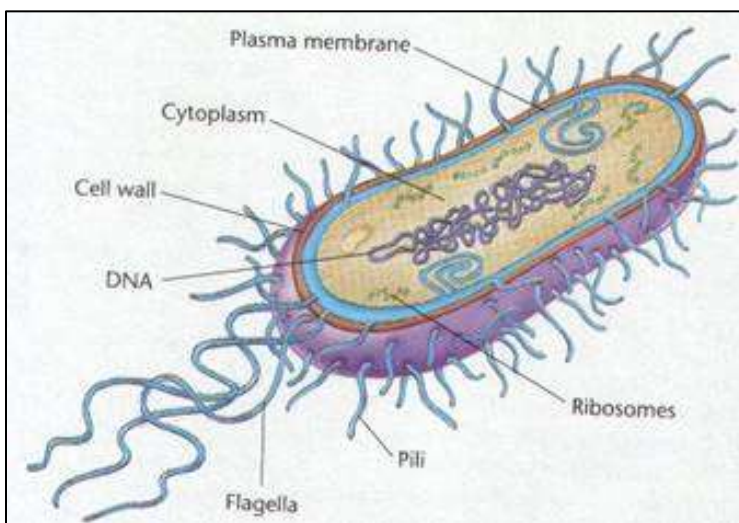
1. Fold a sheet of paper in half (hamburger style).
2. Cut the front flap in half to create two flaps.
3. On the outside of the **left** flap:
 - a. Write "Bacteria" and draw a bacterial cell.
 - b. On your drawing, label the
 - i. cell wall,
 - ii. membrane,
 - iii. DNA,
 - iv. ribosomes, and
 - v. cytoplasm.
4. On the outside of the **right** flap:
 - a. Write "Virus" and draw a viral particle.
 - b. On your drawing, **label the protein coat (capsid) and nucleic acid core.**
5. Under the Bacteria flap:
 - a. Answer each question on the template to describe **bacterial** structure and function.
6. Under the Virus flap:
 - a. Answer the same questions on the template to describe **viral** structure and function



Bacteria

Virus

Ribosomes	Present	Absent
Cell wall	Peptidoglycan / Lipopolysaccharide	No cell wall. Protein coat present instead.
Living attributes	Living organism	Opinions differ on whether viruses are a form of life or organic structures that interact with living organisms.
Introduction (from Wikipedia)	Bacteria constitute a large domain of prokaryotic microorganisms. Typically a few micrometres in length, bacteria have a number of shapes, ranging from spheres to rods and spirals.	A virus is a small infectious agent that replicates only inside the living cells of other organisms.
Reproduction	Fission- a form of asexual reproduction	Invades a host cell and takes over the cell causing it to make copies of the viral DNA/RNA . Destroys the host cell releasing new viruses.
Number of cells	Unicellular; one cell	No cells
Structures	DNA and RNA floating freely in cytoplasm. Has cell wall and cell membrane.	DNA or RNA enclosed inside a coat of protein.
Treatment	Antibiotics	Vaccines prevent the spread and antiviral medications help to slow reproduction but can not stop it completely.
Enzymes	Yes	Yes, in some
Size	Larger (1000nm)	Smaller (20 - 400nm)



Are they made of cells?

Are they made of cells?

How do they reproduce?

How do they reproduce?

What is their genetic material?

What is their genetic material?

Can they make their own proteins?

Can they make their own proteins?

Can they be killed with antibiotics?

Can they be killed with antibiotics?

What is their size?

What is their size?

List four (4) examples.

List four (4) examples.

Name _____

Block _____

Date _____