1. List 3 communicable diseases and 3 non-communicable diseases.

<table>
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<tr>
<th>Communicable Diseases</th>
<th>Non-Communicable Diseases</th>
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2. What are the **FOUR TYPES** of communicable diseases? *Give an example of each.*
   a. ____________________________________________________________
   b. ____________________________________________________________
   c. ____________________________________________________________
   d. ____________________________________________________________

3. List the SIX types of pathogens. Which did we learn about?

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4. Can antibiotics treat diseases that are caused by viruses? Explain!!!

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________________________________________________________________
5. Give FOUR examples of diseases caused by viruses.
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6. Explain how your immune system keeps you healthy. (Describe the 3 lines of defense your body has).
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7. What are the CDC and the WHO? What do they do? Why are they important?
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Vocabulary
Define the following words

1. initial carrier _________________________________________________________________
________________________________________________________________________________

2. vector _________________________________________________________________________
________________________________________________________________________________

3. epidemiologist _________________________________________________________________
________________________________________________________________________________

4. pathogen _____________________________ __________________________________________________________________________________
5. microorganism _________________________________________________________________

__________________________________________________

6. vaccine _______________________________________________________________________

________________________________________________________________________________

7. antibiotic resistance __________________________________________

________________________________________________________________________________

***What was the Big Question from this unit?*** ________________________________________

________________________________________________________________________________

Match the following words to their definitions:

_____1. Colony a. an organism that provides food and a place to stay for another organism or particle

_____2. Antibiotic b. medicine that is used to kill bacteria or stop it from reproducing

_____3. Virus c. a group of the same kind of bacteria

_____4. Host d. a particle that needs a host to survive and reproduce

Circle True or False for the follow statements:

2. True False: Viruses can survive without a host.

3. True False: Antibiotics can treat disease caused by both bacteria and viruses.

4. True False: Bacteria grow and then divide in half to reproduce (fission).

5. True False: Bacteria are single-celled organisms.

6. True False: Some viruses are deadly.

7. True False: Viruses can only attack bacteria cells.

8. True False: A vaccine helps cure a virus once you already have it.
Answer the following questions.

1. Are all bacteria harmful? Explain why or why not. Give at least TWO examples.

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2. Both bacteria and viruses can make us sick but they do this in different ways.
A) Describe how bacteria make us sick once they are inside our bodies (at the cellular level).
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B) Describe how viruses reproduce. Describe how this can sometimes make us sick.
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3. Explain why scientists disagree about whether or not viruses are “alive.”
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4. What is a vaccine? Explain how it works.

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________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________

5. Is an antibiotic treatment or prevention? ________________________________

6. Is a vaccine treatment or prevention? _________________________________

Cell and Organelle Review

Match the words with their definitions below.

1. _______ cell  a. the control center of the cell that holds the genetic material;
2. _______ organelle  b. the watery fluid in a cell that holds all the organelles;
3. _______ nucleus  c. what all living things are made of and what makes them work; “the building blocks of life”
4. ______ cell membrane  d. a layer that surrounds the cell and controls the movement of things in and out of the cell;
5. ______ cytoplasm  e. stores water and nutrients in the cell;
6. ______ mitochondria  f. the strong outside layer that supports a plant cell
7. ______ vacuole  g. provides the cell with energy; “the powerhouse”;
8. ______ cell wall  i. where photosynthesis happens in plant cells;
9. ______ chloroplast  j. the special parts inside of a cell;
Write the definition of the following words:

**Prokaryotic:**

**Eukaryotic:**