

Name _____

Virus and Bacteria

1. If a bacteria reproduces by fission once every 20 minutes, how many bacteria would there be after 1 hour?
 - a. After 3 hours?
 - b. After 1 day?
2. Use a Venn diagram to compare and contrast viruses and bacteria.
3. What is Pasteurization?
4. An infectious disease is one that is caused by a virus or bacteria. Suggest an explanation for the change in the number of deaths due to infectious disease in the chart below.

Ten Leading Causes of Death in the United States, 1900 and Today			
1900		Today	
Cause of Death	Deaths per 100,000	Cause of Death	Deaths per 100,000
Pneumonia, influenza (I)*	215	Heart disease (NI)	281
Tuberculosis (I)	185	Cancer (NI)	205
Diarrhea (I)	140	Stroke (NI)	59
Heart disease (NI)	130	Lung disease (NI)	39
Stroke (NI)	110	Accidents	35
Kidney disease (NI)	85	Pneumonia (I)	31
Accidents	75	Diabetes (NI)	22
Cancer (NI)	65	HIV Infection (I)	16
Senility (NI)	55	Suicide	12
Diphtheria (I)	40	Liver disease (NI)	10
Total	1,100	Total	710

*"I" indicates an infectious disease. "NI" indicates a noninfectious disease.