



1. List three diseases caused by bacteria:

tetanus, leprosy, tuberculosis, MRSA, botulism

- 2. What are the two groups of bacteria? Archaea and Bacteria
- 3. What makes them different? Archaea can survive in harsh environments, often without oxygen, bacteria survive in favorable conditions, usually requiring oxygen
- 4. What are some of the X-TREME places that archaea can live? Underwater vents, geysers, hot springs, volcanoes, other planets???
- 5. What do the prefixes and suffixes often associated with bacteria mean?
 - a. Staphlyo- grows in clusters
 - b. Strepto- grows in chains
 - c. -coccus spherical shape
 - d. -bacillus bar shape
- 6. What shape is this bacteria? spherical

Does it grow in chains or clusters? chains

- So...what is the name of that bacteria? streptococcous
- 7. What do flagella do? help a bacteria move
- 8. How does Bacteria help US??!
 - a. What do bacteria and fungi work together to provide for every ecosystem on the planet? They are decomposers, they help clean up the environment
 - b. Why would someone want bacteria inside of his or her body? To develop antibiotics, produce insulin, and aid in digestion
 - i. What is it called when two different organisms live in close proximity and both receive benefits? mutualism



- ii. Give another example of mutualism in nature: Bacteria help cows to break down grass and hay
- 9. How do bacteria harm us? Disease, food or water spoilage, body odor
 - a. What is a superbug or bacteria that is very harmful to humans? MRSA
 - i. What are the two ways this happens?



- 1. People don't finish their antibiotic cycle, causing the bacteria to become resistant to the antibiotic
- 2. Bacteria mutate, causing them to be resistant to an antibiotic
- b. Why does food spoil (③)? Bad bacteria grow uncontrollably
- c. How can we delay food spoilage due to bacteria? refrigeration, freezing, salting, smoking, drying, boiling/canning



- 10. What is the name of the process of how bacteria reproduce? Binary fission
 - a. Is this sexual or asexual? asexual
 - b. What does that mean? Only requires one cell to reproduce