

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Bacteria

Please read through the following statements and PREDICT if they are true or false. Then go to the textbook (pg 471-477) and find the answers.

Statement	Your Prediction (T/F)	Text Book (T/F)
Microscopic life covers nearly every square millimetre of Earth.		
There are no organisms in pond water.		
Prokaryotes are unicellular organisms that lack a nucleus.		
Kingdom Monera has now been split into two separate kingdoms the eubacteria and archeabacteria.		
The cell walls in eubacteria contain peptidoglycan.		
Eubacteria live only in the human body.		
Archaeobacteria lack peptidoglycan.		
Aliens may be the ancestors of eukaryotes.		
Methanogens live in oxygen free environments.		
Heart shaped prokaryotes are called bacilli.		
Spherical prokaryotes are called spirilla.		
Prokaryotes use flagella for movement.		
Humans are chemoheterotrophs.		
Photoheterotrophs perform photosynthesis.		
Cyanobacteria are photoautotrophs.		
Some chemoautotrophs live in thermal vents on the ocean floor.		
Obligate aerobes can live without oxygen.		
Mycobacterium tuberculosis causes cat scratch fever.		
Some bacteria can divide as often as every 20 minutes.		
Binary fission results in two identical daughter cells.		
The process of conjugation decreases genetic diversity		
Spores are extremely vulnerable to harsh conditions.		
Bacteria can digest dead trees.		
Bacteria are used in sewage treatment.		
Bacteria help plants get nitrogen.		
Nitrogen fixation is the process of fixing ammonia to nitrogen gas.		
<i>Rhizobium</i> is a nitrogen fixing bacteria.		
Oil spills can be cleaned up by petroleum digesting bacteria.		
You have bacteria living all over you right now.		
<i>E. coli</i> live in your stomach.		
We benefit from a symbiotic relationship with bacteria.		