

2020 2021 worksheet 7 - answers

1. What cell structures would you find in all prokaryotes?
Cell (a large circular chromosome), Cytoplasm, ribosomes, plasma membrane, and cell walls

2. Fill in the appropriate bacterium name below

rod shaped bacteria are called bacillus

round shaped bacteria are called Coccus (plural)

Spiral shaped bacteria are called Spirillum

3. What do the terms cusp and flagella refer to in terms of bacteria behavior?

Cusp means cilia

Flagell means change.

4. What is bioremediation?

Using the terms bacteria, archaea, fungi to describe human waste sites and how humans use them.

5. What is the importance of Nitrosocystis (there was a mistake in the worksheet - it said Nitrosocystis instead of Nitrosocystis)?

Nitrosocystis: They are specialized bacteria cells that can perform nitrogen fixation. They can take atmospheric nitrogen and convert it to usable form for plants such as nitrate.

6. Fill in the dates below

Plumet formed _____ 1.1 billion years ago

Oxidized (redox) cycle formed _____ 1.5 billion years ago

Cyanobacteria pumped oxygen into the atmosphere _____ 1.5 billion years ago.

Oxidized all oxygen (redox) _____ 1.1 billion years ago.