

Name _____

Bacteria Buddies: The Fascinating World of Reproduction

Open-Ended Response Answer Key

1. Binary fission begins with DNA replication, followed by elongation and division of the cell into two identical daughter cells.
2. Environmental factors like temperature, pH levels, and nutrient availability can either promote or inhibit bacterial reproduction.
3. Examples of harsh conditions for bacteria include extreme temperatures, acidic or alkaline environments, and lack of nutrients.
4. Bacteria can adapt through mechanisms like forming spores, developing antibiotic resistance, or altering their metabolic processes.

