

Name _____

Inside the Microscopic World: Exploring the Anatomy of Bacterial Cells

Open-Ended Response Answer Key

1. The bacterial cell wall is a rigid structure that provides support and protection to the cell. It is composed of molecules such as peptidoglycan, which give it strength.
2. The cell membrane regulates the passage of nutrients and waste by controlling the movement of molecules through its lipid bilayer and protein channels.
3. Ribosomes in bacterial cells are organelles where proteins are synthesized, playing a crucial role in cellular processes.
4. Some additional features that some bacteria possess include flagella for movement and capsules for protection, both of which enhance their survival in various environments.

