

Name: _____ Date: _____

Blueprint of the Living Fortress: 6th Grade Cell Structure Quiz

Identify the microscopic machinery keeping organisms alive through engaging recall questions about organelles and their roles in biological survival.

1. Which organelle acts like a 'security guard,' deciding which nutrients can enter a cell and which waste products must leave?

- A. Mitochondria
- B. Cell Membrane
- C. Nucleus
- D. Lysosome

2. The ___ is often called the 'brain' or 'control center' of the cell because it contains the genetic blueprints (DNA).

- A. Cytoplasm
- B. Ribosome
- C. Nucleus
- D. Golgi Body

3. True or False: Mitochondria are responsible for producing energy through a process called respiration.

- A. True
- B. False

4. If a cell needs to package and ship a protein to a different part of the body, which organelle serves as the 'post office'?

- A. Endoplasmic Reticulum
- B. Lysosome
- C. Golgi Apparatus
- D. Vacuole

5. The tiny structures that act like protein factories, creating the building blocks the cell needs to grow, are called ___.

- A. Chloroplasts
- B. Ribosomes
- C. Flagella
- D. Mitochondria

6. True or False: The Lysosome is responsible for cleaning up the cell by breaking down waste materials.

- A. True
- B. False

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7. Which organelle is a network of membranes that helps transport materials, like a highway system for the cell?

- A. Endoplasmic Reticulum
- B. Cell Wall
- C. Nucleus
- D. Cytoplasm

8. Before a skin cell can divide to make a new cell, the ___ must manage the process of DNA replication.

- A. Cell Membrane
- B. Golgi Apparatus
- C. Nucleus
- D. Lysosome

9. True or False: The cell membrane is only found in plant cells, not animal cells.

- A. True
- B. False

10. Which cell function involves the movement of ions across a nerve cell to send signals throughout the body?

- A. Respiration
- B. Reproduction
- C. Conductivity
- D. Secretion