

# ANIMAL CELL

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

Class: \_\_\_\_\_

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

*Instructions: Read the passage below carefully and answer the comprehension questions.*

## Command and Power

The nucleus is widely recognized as the command center or the brain of the animal cell. It houses the essential genetic material, known as DNA, which provides the coded instructions for growth and development. The nucleus is surrounded by a double-layered nuclear envelope, which keeps the genetic code separated from the rest of the cell's activities. Another vital organelle found within the cytoplasm is the mitochondrion, famously referred to as the powerhouse. Mitochondria are responsible for the process of cellular respiration, which converts food into usable energy. This energy is stored in molecules called ATP, which act like tiny batteries to power all cellular activities. Cells that require high amounts of energy, such as muscle cells, contain a significantly higher number of mitochondria to meet their needs. The nucleus coordinates every cellular process by utilizing the specific instructions found within the DNA sequence. Both the nucleus and the mitochondria are absolutely essential for the survival, energy, and reproduction of the cell. They represent the most recognizable features of eukaryotic life forms and ensure the cell functions correctly. Without this constant flow of energy and instructions, the animal cell would be unable to sustain life or perform its required duties.

## COMPREHENSION QUESTIONS

**1. What is the outer boundary of the animal cell?**

- A) Cell Wall
- B) Cell Membrane
- C) Nuclear Envelope
- D) Golgi

**3. Which organelle is the control center?**

- A) ER
- B) Nucleus
- C) Vacuole
- D) Lysosome

**2. Which fluid fills the cell interior?**

- A) Sap
- B) Cytoplasm
- C) Blood
- D) Water

**4. What provides energy for the cell?**

- A) Ribosome
- B) Mitochondria
- C) DNA
- D) Centriole

**5. Explain why muscle cells have many mitochondria.**

**6. Describe the function of the nuclear envelope.**

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**S Ashworth**



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