

Name \_\_\_\_\_

## Respiration: The Breath of Life and the Carbon Cycle

### Multiple Choice Questions

1. What is respiration?
  - a. The process of converting oxygen into glucose
  - b. The process of breaking down glucose to release energy
  - c. The process of inhaling and exhaling air
  - d. The process of photosynthesis
  
2. What is the primary waste product produced during respiration?
  - a. Oxygen
  - b. Glucose
  - c. Carbon dioxide
  - d. Water
  
3. Where does aerobic respiration primarily occur in cells?
  - a. In the nucleus
  - b. In the cytoplasm
  - c. In the mitochondria
  - d. In the cell membrane
  
4. Which type of respiration occurs in the absence of oxygen?
  - a. Aerobic respiration
  - b. Anaerobic respiration
  - c. Photosynthesis
  - d. Decomposition
  
5. How does respiration contribute to the carbon cycle?
  - a. By absorbing carbon dioxide from the atmosphere
  - b. By releasing oxygen into the atmosphere
  - c. By releasing carbon dioxide into the atmosphere
  - d. By converting carbon dioxide into glucose

