

Name _____

Respiration: The Breath of Life and the Carbon Cycle

Open-Ended Response Questions

1. Describe the two main stages of respiration, including where they occur and their significance in providing energy to cells.
2. Discuss the importance of the carbon cycle in regulating Earth's climate and why the balance between respiration and photosynthesis is crucial.
3. Explain how human activities, such as the burning of fossil fuels, impact the carbon cycle and contribute to climate change.
4. Imagine you are a scientist studying the relationship between respiration and climate change. What research questions would you investigate, and why are they important for addressing environmental challenges?

