

Name \_\_\_\_\_

## How Does Carbon Get into the Ground and Become Fossil Fuels

### Open-Ended Response Questions

1. Describe the carbon cycle and its significance in regulating carbon dioxide levels in the Earth's atmosphere.
2. Explore the potential environmental impacts of extracting and using fossil fuels. What are some alternative sources of energy that could mitigate these impacts?
3. Imagine you are a scientist studying the potential for converting fossil fuels into cleaner forms of energy. What technologies or strategies might you investigate, and how could they benefit the environment and society?
4. Discuss the challenges and benefits associated with transitioning from fossil fuels to renewable energy sources. How might such a transition impact economies and communities worldwide?

