

Name _____

Unraveling the Mystery of Chemical Potential Energy

Open-Ended Response Questions

1. Investigate and explain how chemical potential energy is harnessed in renewable energy sources like solar cells or wind turbines. How does this contribute to sustainable energy production?
2. Imagine a world without the concept of chemical potential energy. How would our lives be different, and what sources of energy would we rely on instead?
3. Reflect on the environmental impacts of extracting and using fossil fuels, which store chemical potential energy. Discuss the importance of transitioning to cleaner energy sources.
4. Analyze the role of chemical potential energy in the human body during digestion and cellular respiration. How is food converted into usable energy, and why is this process vital for our survival?

