

Name _____

Volcanoes and Climate Change: Uncovering the Connection

Open-Ended Response Questions

1. Discuss the mechanisms through which volcanic eruptions release greenhouse gases and their long-term implications for climate change. How can human activities exacerbate the warming effect of volcanic emissions?
2. Explore the historical significance of volcanic eruptions, such as the eruption of Mount Tambora in 1815, in shaping climate and human history. How did these eruptions impact agriculture, societies, and economies?
3. Reflect on the challenges and benefits of using computer models to simulate volcanic eruptions and their effects on climate. How can improved modeling contribute to better climate predictions and mitigation strategies?
4. Investigate the role of international cooperation in monitoring and responding to volcanic eruptions with climate implications. How do countries and organizations collaborate to address the global challenges posed by volcanic activity and climate change?

