Name _____

Water's Thermal Dance: Specific Heat Capacity and Earth's Temperature Regulation

Open-Ended Response Questions

1. Discuss the potential consequences for life on Earth if water had a low specific heat capacity and couldn't regulate temperature effectively.

2. Explain how an understanding of water's specific heat capacity can be applied to predict and mitigate the impacts of climate change.

3. Imagine a world where water's specific heat capacity was much higher than it is. How might this affect Earth's climate and ecosystems?

4. Describe an experiment you could conduct to demonstrate the concept of specific heat capacity to someone who has never heard of it before.

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