

Name _____

Dancing in the Skies: How the Water Cycle Shapes Weather Patterns

Open-Ended Response Questions

1. Investigate the role of the water cycle in the occurrence of extreme weather events, such as hurricanes and droughts. Discuss the complex interactions involved in these events and their consequences.
2. Imagine a world without the water cycle. How would this impact weather patterns, climate, and the availability of freshwater resources?
3. Reflect on the importance of accurate weather predictions for various sectors, such as agriculture, transportation, and emergency preparedness. Discuss how advancements in meteorology have improved weather forecasting.
4. Think about the impact of changing weather patterns due to climate change. Discuss how alterations in the water cycle can lead to more frequent and severe weather events and their implications for society and the environment.

