

Name _____

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

Open-Ended Response Answer Key

1. Answers may include discussions of the mechanisms behind extreme weather events, such as the role of warm ocean waters in hurricane formation and the complex factors leading to droughts.
2. A world without the water cycle would lack rain, rivers, and lakes, leading to extreme climates and a scarcity of freshwater resources.
3. Reflect on the importance of accurate weather forecasts for specific sectors and how technological advancements have improved prediction accuracy.
4. Consider the impact of climate change on the water cycle and weather patterns, including more frequent and severe weather events like hurricanes, wildfires, and droughts, and the need for mitigation and adaptation strategies.

