

Name _____

Frozen Giants: How Glaciers Shape the Earth's Landscape

Open-Ended Response Answer Key

1. Answers may vary but could include using tools like ice cores, sediment sampling, and remote sensing to study glacier history in remote areas.
2. Preserving glaciers is crucial for scientific research, understanding climate change, and conserving freshwater resources. Governments can enact policies to reduce greenhouse gas emissions, while individuals can support climate-friendly initiatives.
3. Glacier activity plays a significant role in providing freshwater resources to regions dependent on glacier meltwater. Changes in glacier behavior could impact water supplies, potentially leading to water scarcity and conflicts.
4. Answers may vary depending on the glacier or region chosen for investigation. Some glaciers hold cultural significance for local communities, influencing traditions, livelihoods, and spiritual beliefs.

