

Name _____

Arctic Wonders: Exploring the Polar Playground

Open-Ended Response Answer Key

1. The Arctic Ocean plays a crucial role in the Earth's climate system by regulating global temperatures. It reflects sunlight and helps cool the planet. However, it is also highly sensitive to climate change, which can lead to the melting of sea ice and rising sea levels, impacting global weather patterns.
2. Artists like Cory Trépanier face numerous challenges when creating artwork in the Arctic, including extreme cold, harsh winds, limited accessibility, and the need for detailed depictions of the environment. They often rely on scientific research and personal experiences to capture the Arctic's beauty and fragility.
3. Protecting the Arctic environment is crucial because it supports unique biodiversity and plays a vital role in the Earth's climate system. Preserving this region helps maintain global climate stability and ensures the survival of species adapted to its extreme conditions.
4. Cory Trépanier's artwork can influence viewers by raising awareness of the Arctic's significance and vulnerability. It encourages people to appreciate the beauty of the region and consider the importance of its conservation for the well-being of our planet.

