

Name _____

Mysteries of the Taiga: Exploring the World's Largest Terrestrial Biome

Open-Ended Response Answer Key

1. Coniferous trees in the taiga biome have needle-like leaves and shallow root systems to survive in the cold climate and nutrient-poor soil. These adaptations help them conserve water and access nutrients more efficiently.
2. The taiga biome plays a crucial role in regulating global climate patterns by sequestering carbon dioxide through photosynthesis and releasing oxygen into the atmosphere. It also helps maintain temperature balance and moisture levels in the region.
3. An example of a plant adaptation in the taiga is the ability of coniferous trees to shed snow from their branches to prevent damage from heavy snowfall. This adaptation ensures the survival of the trees and allows them to continue growing in harsh winter conditions.
4. Individuals and communities can contribute to taiga conservation by supporting sustainable forestry practices, participating in reforestation efforts, and advocating for policies that protect forest habitats and wildlife.

