

Name \_\_\_\_\_

## Secrets of the Emerald Canopy: Exploring the Tropical Rainforest Biome

### Open-Ended Response Answer Key

1. Biodiversity in the tropical rainforest biome contributes to ecosystem stability by ensuring resilience against disturbances, supporting nutrient cycling, and providing ecosystem services essential for human well-being.
2. Deforestation leads to habitat loss and fragmentation, disrupts ecological processes, and diminishes biodiversity by destroying habitats and displacing species.
3. Plants may have adaptations such as drip tips and buttress roots, while animals may have camouflage and specialized feeding behaviors to survive in the dense vegetation and compete for resources.
4. Indigenous communities rely on the tropical rainforest for food, medicine, shelter, and cultural practices, highlighting the interconnectedness between human communities and natural ecosystems.

