

Name \_\_\_\_\_

## The Green Powerhouses: Unveiling the Role of Leaves in Plants

### Open-Ended Response Questions

1. Explore the concept of photosynthetic efficiency in leaves, considering factors such as leaf anatomy, environmental conditions, and adaptation strategies.
2. Reflect on the ecological significance of leaves in supporting diverse habitats and ecosystems, considering their role in energy capture and nutrient cycling.
3. Compare and contrast the leaf adaptations of plants in arid and humid environments, discussing how these adaptations help plants thrive in their respective habitats.
4. Discuss the impact of environmental stressors, such as pollution and climate change, on leaf function and plant health, considering potential implications for ecosystem stability and biodiversity.

