

Name _____

Nature's Ingenious Hydration: How Non-Vascular Plants Get Water and Nutrients

Open-Ended Response Questions

1. Discuss the importance of osmosis in water absorption for non-vascular plants, including how it works and why it's essential for their survival.
2. Explain how non-vascular plants utilize water retention mechanisms like cuticles and mucilage to adapt to different environmental conditions, providing specific examples.
3. Explore the role of symbiotic relationships with microorganisms in nutrient uptake for non-vascular plants, highlighting the benefits for both partners in the association.
4. Describe the ecological significance of non-vascular plants in contributing to soil moisture retention and nutrient cycling in various terrestrial habitats.

