

Name _____

The Power Within: Unraveling the Purpose of Seeds

Open-Ended Response Answer Key

1. Seed dispersal plays a crucial role in plant ecology by facilitating the movement of plant offspring to new habitats, promoting genetic diversity, and shaping plant community composition and distribution.
2. Seeds exhibit a wide range of adaptations to different environments, such as adaptations in seed structure (e.g., winged seeds for wind dispersal) and dispersal mechanisms (e.g., buoyant seeds for water dispersal), which enhance reproductive success in various ecological niches.
3. Seed conservation efforts are essential for preserving global biodiversity by safeguarding plant genetic diversity, maintaining ecosystem resilience, and ensuring the availability of plant resources for future generations.
4. In a world without seeds, ecosystems would struggle to regenerate, agricultural productivity would decline, and human societies would face food shortages and economic challenges due to the loss of vital plant resources.

