

Name _____

The Vital Role of Vascular Plants: Ecosystems and Society

Short Answer Key

1. Vascular plants produce oxygen through photosynthesis, using sunlight, water, and carbon dioxide.
2. Vascular plants support biodiversity by providing habitat and food sources for diverse species in ecosystems.
3. Vascular plants absorb carbon dioxide from the atmosphere and store carbon in their biomass, contributing to carbon sequestration and climate change mitigation.
4. The roots of vascular plants help control erosion and improve soil health by stabilizing soil and preventing erosion, enhancing water retention, and promoting nutrient cycling.
5. Examples of direct benefits of vascular plants to human society include providing sources of food and nutrition, supporting medicinal and pharmaceutical applications, and contributing to aesthetic and recreational value.

