

Name _____

The Versatile Plant Stem: An Essential Organ for Growth and Support

Open-Ended Response Questions

1. Discuss the importance of stem flexibility in plant survival, considering its role in withstanding wind and promoting efficient nutrient transport.
2. Explore the concept of vegetative propagation and its reliance on stem structures such as stolons and rhizomes, highlighting its significance in agriculture and horticulture.
3. Reflect on the ecological implications of plant stems as food sources for herbivores and decomposers, considering their role in nutrient cycling and energy transfer in ecosystems.
4. Compare and contrast the stem structures of herbaceous plants and woody plants, discussing how their differences reflect their respective growth habits and environmental adaptations.

