

Name _____

Exploring Herbaceous and Woody Plants: What Sets Them Apart?

Open-Ended Response Answer Key

1. Advantages and disadvantages of growing herbaceous plants compared to woody plants vary based on factors such as garden layout, maintenance requirements, and desired aesthetic. Herbaceous plants offer seasonal color and variety but may require more frequent maintenance, such as replanting annually. Woody plants provide structure and permanence but may require more space and time to mature.
2. Environmental conditions influence the choice between herbaceous and woody plants. In colder climates, woody plants are preferred for their tolerance to frost, while herbaceous plants thrive in mild climates with longer growing seasons.
3. Herbaceous and woody plants support ecosystem health and biodiversity by providing habitat, food sources, and structural diversity. Herbaceous plants contribute to soil fertility and offer seasonal variations, while woody plants provide habitat complexity, carbon sequestration, and long-term benefits.

