

Name \_\_\_\_\_

## Soil Secrets: Understanding Biennial Plant Nutrition

### Open-Ended Response Questions

1. Explain the importance of well-drained soil rich in organic matter for biennial plants, including how it benefits plant growth and development, and why it is preferred over other types of soil.
2. Describe the role of balanced fertilizer in supporting the nutritional needs of biennial plants, including the importance of nitrogen, phosphorus, and potassium, and how gardeners can determine the appropriate timing and dosage for fertilization.
3. Discuss the special considerations for soil and fertilization when growing biennial plants that produce edible crops, such as carrots or beets, including specific soil requirements and potential challenges associated with root development.
4. Explain why supplemental fertilization with a bloom-boosting fertilizer high in phosphorus might be beneficial for biennial plants grown for their flowers, including how it promotes prolific flowering and enhances the overall aesthetic appeal of the garden.

