

Name \_\_\_\_\_

## Bug Buffet: Exploring the Diets of Insects

### Open-Ended Response Questions

1. Describe two different feeding strategies used by bugs to obtain their food, including examples of bugs that employ each strategy.
2. Discuss the ecological importance of detritivorous bugs in nutrient cycling and decomposition, providing examples of specific detritivores and their roles in ecosystems.
3. Explain how bugs with chewing mouthparts differ in their feeding habits from bugs with piercing-sucking mouthparts, and provide examples of bugs that use each type of mouthpart.
4. Compare and contrast the feeding behaviors of herbivorous, carnivorous, and omnivorous bugs, highlighting the types of food they consume and their roles in ecosystems.

