

Name \_\_\_\_\_

## Unraveling the Web of Life: Understanding Food Webs in Ecology

### Multiple Choice Questions

1. What is the primary difference between a food chain and a food web?
  - a) A food chain is linear, while a food web is interconnected.
  - b) A food chain has more trophic levels than a food web.
  - c) A food chain includes only producers, while a food web includes consumers.
  - d) A food chain is found in aquatic ecosystems, while a food web is found in terrestrial ecosystems.
  
2. What role do decomposers play in a food web?
  - a) They are primary consumers.
  - b) They convert solar energy into chemical energy.
  - c) They break down dead organisms and recycle nutrients.
  - d) They are apex predators.
  
3. Which trophic level includes apex predators?
  - a) Primary consumers
  - b) Tertiary consumers
  - c) Secondary consumers
  - d) Producers
  
4. How does a food web differ from a food chain?
  - a) A food web includes only decomposers.
  - b) A food web is linear, while a food chain is interconnected.
  - c) A food web has fewer trophic levels than a food chain.
  - d) A food web represents multiple interconnected food chains.
  
5. Why are food webs important in ecology?
  - a) They illustrate the linear flow of energy in ecosystems.
  - b) They help predict changes in climate.
  - c) They reveal the interdependence of species and the complexity of ecological relationships.
  - d) They are used for agricultural purposes.

