

Food Chains and Webs Quiz PDF

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What is the primary role of producers in a food chain?

- Decompose organic material
- Produce energy through photosynthesis
- Store energy in the form of fat
- Consume other organisms

What percentage of energy is typically transferred from one trophic level to the next?

- 1%
- 50%
- 90%
- 10%

Which of the following is a primary consumer?

- Lion
- Mushroom
- Oak tree
- Grasshopper

How does human activity, such as pollution, impact food chains and webs?

How do decomposers contribute to nutrient cycling in an ecosystem?

Discuss the significance of the 10% rule in energy transfer within an ecosystem.

What is the main function of decomposers in an ecosystem?

- Produce energy
- Break down dead material
- Store nutrients
- Consume producers

What is a keystone species?

- A species that is the most abundant in an ecosystem
- A species that is always at the top of the food chain
- A species that only eats plants
- A species that has a disproportionate effect on its environment

Which of the following are components of a food chain? (Select all that apply)

- Producers
- Consumers
- Photosynthesis
- Decomposer

What roles do decomposers play in an ecosystem? (Select all that apply)

- Breaking down dead organisms
- Producing energy through photosynthesis
- Supporting plant growth
- Consuming producers

Which organism is typically at the top of a food chain?

- Producer
- Secondary consumer
- Tertiary consumer
- Primary consumer

Which statements about energy flow in ecosystems are true? (Select all that apply)

- Energy flows in one direction
- Energy is recycled within the ecosystem
- Energy decreases at each trophic level
- Energy is lost as heat at each trophic level

Which of the following best describes a food web?

- A single linear path of energy flow
- A cycle of water through the ecosystem
- A diagram showing only producers and consumers
- A complex network of interconnected food chains

Explain the difference between a food chain and a food web.

Which of the following organisms are considered consumers? (Select all that apply)

- Grass
- Rabbit
- Hawk

Deer

Which term describes the increase in toxin concentration as it moves up the food chain?

- Biomagnification
- Decomposition
- Respiration
- Photosynthesis

What are the effects of biomagnification in food webs? (Select all that apply)

- Increased toxin levels in top predators
- Decreased biodiversity
- Enhanced growth of producers
- Health risks to humans consuming affected species

What are the potential consequences of removing a top predator from a food web?

Describe the role of a keystone species in maintaining ecosystem balance. Provide an example.

Which factors can disrupt a food web? (Select all that apply)

- Habitat destruction
- Stable climate conditions
- Pollution

Overfishing