



Food Webs and Energy

Name: _____

Date: _____

Grade: Grade 4

Part A: Multiple Choice

Circle the best answer for each question.

1. A field has grass, mice, snakes, and hawks.

Which food chain is in the correct order?

- A) hawk → snake → mouse → grass
- B) grass → mouse → snake → hawk
- C) mouse → grass → hawk → snake
- D) snake → hawk → grass → mouse

2. Why can an ecosystem support more rabbits than wolves?

- A) Wolves are bigger animals
- B) Less energy is available at higher trophic levels
- C) Rabbits reproduce faster than wolves
- D) Wolves live in smaller habitats

3. Which is the best example of a decomposer?

- A) eagle
- B) mushroom
- C) deer
- D) sunflower

4. What would most likely happen if a new predator that eats rabbits is introduced to a grassland ecosystem?

- A) Grass populations would decrease
- B) Rabbit populations would decrease
- C) Snake populations would increase
- D) Decomposer populations would double

Part B: Fill in the Blank

Write the correct answer on each line.

1. An ecosystem with many different food chains woven together is more _____ to change.
2. Scavengers like vultures eat animals that are already _____.
3. Without decomposers, dead organisms would pile up and nutrients would not return to the _____.
4. Energy flows in one _____ through a food chain, from producers to consumers.
5. An invasive species can disrupt a food web by competing with native organisms for _____.

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Part B: Fill in the Blank

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1. An ecosystem with many different food chains woven together is more resistant to change.
2. Scavengers like vultures eat animals that are already dead .
3. Without decomposers, dead organisms would pile up and nutrients would not return to the soil .
4. Energy flows in one direction through a food chain, from producers to consumers.
5. An invasive species can disrupt a food web by competing with native organisms for resources .