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

Write the correct answer on each line.

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** .