



Energy in Ecosystems

Name: _____

Date: _____

Grade: Grade 5

Part A: Multiple Choice

Circle the best answer for each question.

1. Why is a food web a better model than a food chain for an ecosystem?

- A) It shows only one path of energy
- B) It shows many connected feeding relationships
- C) It shows only producers in the ecosystem
- D) It shows only the top predator's diet

2. About how much energy passes from one level of an energy pyramid to the next?

- A) About 10 percent
- B) About 50 percent
- C) About 90 percent
- D) About 100 percent

3. What happens to most of the energy that is not passed up the energy pyramid?

- A) It becomes new producers
- B) It is lost as heat
- C) It is stored in soil
- D) It is recycled by the sun

4. If all the hawks were removed from a food web, what would most likely happen?

- A) Plants would disappear quickly
- B) Mouse and snake populations could grow too large
- C) The sun would stop providing energy
- D) Decomposers would stop working

Part B: Fill in the Blank

Write the correct answer on each line.

1. A diagram showing how energy decreases at each level is an energy _____.
2. Many connected food chains make up a food _____.
3. About _____ percent of energy moves from one level to the next.
4. Most energy lost between levels is released as _____.
5. Removing one species from a food web can _____ the whole ecosystem.

Part A: Multiple Choice

Circle the best answer for each question.

1. Why is a food web a better model than a food chain for an ecosystem?

- A) It shows only one path of energy
- B) It shows many connected feeding relationships**
- C) It shows only producers in the ecosystem
- D) It shows only the top predator's diet

2. About how much energy passes from one level of an energy pyramid to the next?

- A) About 10 percent**
- B) About 50 percent
- C) About 90 percent
- D) About 100 percent

3. What happens to most of the energy that is not passed up the energy pyramid?

- A) It becomes new producers
- B) It is lost as heat**
- C) It is stored in soil
- D) It is recycled by the sun

4. If all the hawks were removed from a food web, what would most likely happen?

- A) Plants would disappear quickly
- B) Mouse and snake populations could grow too large**
- C) The sun would stop providing energy
- D) Decomposers would stop working

Part B: Fill in the Blank

Write the correct answer on each line.

1. A diagram showing how energy decreases at each level is an energy pyramid.
2. Many connected food chains make up a food web.
3. About 10 percent of energy moves from one level to the next.
4. Most energy lost between levels is released as heat.
5. Removing one species from a food web can unbalance the whole ecosystem.