Food Webs and Energy

Name: _____ Date: _____ Grade: Grade 4

Part A: Multiple Choice

Circle the best answer for each question.

1. Why does an energy pyramid get narrower at the top?

- A) There are more predators than prey
- B) Energy is gained at each level
- C) Energy is lost as heat at each level so less is available
- D) Top predators create their own energy

2. In a pond food web, algae are eaten by snails, and snails are eaten by fish. What role do the snails play?

- A) producers
- B) decomposers
- C) primary consumers
- D) top predators

3. If the frog population in a food web suddenly drops, what is the most likely effect?

- A) Insect populations increase because fewer frogs eat them
- B) Snake populations increase because they have more food
- C) Plant populations decrease because frogs no longer eat them
- D) Decomposer populations immediately disappear

4. Which organism would be found at the first trophic level?

- A) hawk
- B) grasshopper
- C) grass
- D) frog

Part B: Fill in the Blank

Write the correct answer on each line.

1. The original source of energy for almost all food webs on Earth is the _____ .

2. A tertiary consumer eats _____ consumers.

3. Organisms that eat dead organic matter are called _____ .

4. In an energy pyramid, the level with the least energy is the _____ .

5. Photosynthesis converts light energy into _____ energy stored in food.

Answer Key · Food Webs and Energy · Grade: Grade 4

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Part B: Fill in the Blank

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1. The original source of energy for almost all food webs on Earth is the **sun** .
2. A tertiary consumer eats **secondary** consumers.
3. Organisms that eat dead organic matter are called **decomposers** .
4. In an energy pyramid, the level with the least energy is the **top** .
5. Photosynthesis converts light energy into **chemical** energy stored in food.