

SCIENCE 10 - Worksheet #3

Energy Flow in Ecosystems

Name: _____

Block: _____

1. Match the following fill in the blanks

1. Biodegradation
2. Biomass
3. Consumer
4. Decomposers
5. Decomposition
6. Energy Flow
7. Food Chains
8. Food Pyramids
9. Food Webs
10. Photosynthesis
11. Primary Consumers
12. Primary Producers
13. Secondary Consumers
14. Tertiary Consumers
15. Trophic

- a. _____ refers to the total mass of living plants, animals, fungi, and bacteria in a given area.
- b. The flow of energy from an ecosystem to an organism and from one organism to another is called _____.
- c. Plants are called producers because they produce food in the form of carbohydrates during _____.
- d. An insect such as a bee, that feeds on a plant is called a _____.
- e. _____ is the breaking down of organic wastes and dead organisms.
- f. _____ are models that show that flow of energy from plant to animal and from animal to animal. Each step is called a _____ level.
- g. Plants and phytoplankton, such as algae, are at the first trophic level and are referred to as _____.
- h. _____ obtain their energy from the primary producers. _____ obtain their energy from eating primary producers.
- i. In the fourth trophic level are _____ that feed on secondary consumers to obtain energy.
- j. _____ are models of the feeding relationships within an ecosystem. _____ show the loss of energy from one trophic level to the next.

2. What does the term energy flow describe in an ecosystem?

3. Describe each of the following as a producer, consumer, or decomposer (more than one may apply).

- (a) breaks down fallen leaves: _____
- (b) does not need to consume other organisms to live: _____
- (c) assists with biodegradation: _____
- (d) is the first step in energy flow through an ecosystem: _____
- (e) may consume another consumer: _____

Answer Key To Section Energy Flow

Liying Dong

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answer Key To Section Energy Flow:

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Issues 47 Ethical Issues 48 Professional Issues Answer Key

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Answer Key To Section Energy Flow Introduction

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