

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.

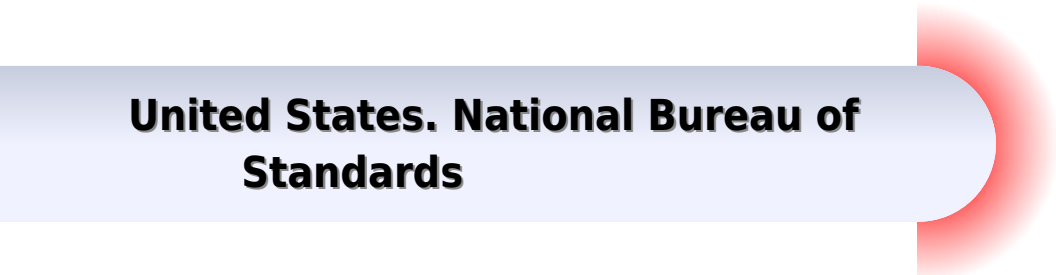
2. What does the term energy flow describe in an ecosystem?

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

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Charge and Energy Transfer Dynamics in Molecular Systems Volkhard May, Oliver Kühn, 2008-11-20 This second edition is based on the successful concept of the first edition in presenting a unified perspective on molecular charge and energy transfer processes The authors bridge the regimes of coherent and dissipative dynamics thus establishing the connection between classic rate theories and modern treatments of ultrafast phenomena The book serves as an introduction for graduate students and researchers Among the new topics of this second edition are semiclassical and quantum classical hybrid formulations of molecular dynamics the basics of femtosecond nonlinear spectroscopy electron transfer through molecular bridges and proteins multidimensional tunneling in proton transfer reactions two exciton states and exciton annihilation in biological and nonbiological chromophore complexes More illustrating examples as well as an enlarged reference list are added A new chapter gives an introduction into the theory of laser pulse control of molecular transfer processes

The Science Teacher's Activity-A-Day, Grades 5-10 Pam Walker, Elaine Wood, 2010-09-03 A hands on and fun filled resource for teaching science to middle and high school students New in the 5 Minute Fundamentals Series The Science Teacher's Activity A Day Grades 6 12 includes 180 easy five minute hook or sponge activities to capture learners attention and introduce lessons Divided into three units Physical Science Life Science and Earth and Space Science the activities cover topics based on the National Science Education Standards All the book's activities can be done with materials that are inexpensive and easy to find Includes quick and fun sponge activities that are designed to engage students All the activities take about 5 minutes to complete The Science Teacher's Activity a Day is an ideal resource for middle and high school science teachers

NBS Special Publication, 1968 **Becoming Part of the Solution** Bill Wallace, 2005-01-01 Publications of the National Bureau of Standards 1977 Catalog United States. National Bureau of Standards, 1978

Introduction to Heat Transfer Theodore L. Bergman, Adrienne S. Lavine, Frank P. Incropera, David P. DeWitt, 2011-06-13 Completely updated the sixth edition provides engineers with an in depth look at the key concepts in the field It incorporates new discussions on emerging areas of heat transfer discussing technologies that are related to nanotechnology biomedical engineering and alternative energy The example problems are also updated to better show how to apply the material And as engineers follow the rigorous and systematic problem solving methodology they ll gain an

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