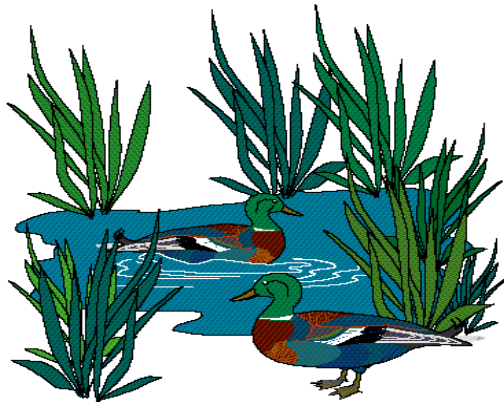


FOOD CHAINS AND WEBS

Video Quiz

Directions: Fill in the blank with the correct answer.

1. An _____ is a place where plants and animals interact with the environment.
2. Green plants are also called _____ because they make their own food.
3. Animals that cannot produce their own food are called _____.
4. _____ are organisms that eat other animals.
5. A food chain or food _____ illustrates the feeding relationships in a place.
6. Each level in a food chain is called a _____ level.
7. When we eat something, we are taking in _____ and energy.
8. _____ are important organisms that break down dead organisms.
9. When one organism eats another organism, a great deal of energy is lost in the form of _____.
10. An energy pyramid shows that _____ energy is available at each step up the pyramid.



FOOD CHAINS AND WEBS**Chaining It Together**

1. Using your knowledge of food chains and the following organisms, in the space below, create a diagram of a food chain containing the organisms listed below. Use arrows to show that organisms are eaten by other organisms further along the chain. Also, make a box above each organism, and using color pencils create a drawing of the organism. Leave plenty of room to add other things requested further down the page.

Phytoplankton

Nymph

Trout

Heron

2. After creating your basic food chain, label each organism either a producer or consumer.

3. Last, label each step along the food chain with the following labels: first trophic level, second trophic level, third trophic level, and fourth trophic level.

Name _____

Date _____

FOOD CHAINS AND WEBS**Web Weaving**

1. In the space below, using your knowledge of food webs and the organisms listed below, create a food web. Use arrows to show that organisms are eaten by other organisms further along the chain. Also make a box above each organism, and using color pencils create a drawing of the organism. Leave plenty of room to add other things requested further down the page.

Phytoplankton**Berries****Squirrel****Nymph****Bear****Trout****Heron****Snake****Bird**

2. Add decomposers to your food web and include arrows where appropriate.

3. Describe how this food web may be similar or very different from food webs in your region.

FOOD CHAINS AND WEBS**Word Search**

Directions: Find the hidden vocabulary words listed below. Words may appear vertically, horizontally, or diagonally.

Food chain
Herbivore
Omnivore

Ecosystem
Carnivore
Food web

Riparian
Prey
Decomposers

Producer
Predator
Biomass

Consumer
Trophic level
Biomagnification

A F B G B I O M A G N I F I C A T I O N C H D I L
 J V K W L X M Y N Z O A P B Q C R D S E T F U G T
 H O I F O O D C H A I N S J P K Q C L R M S N T R
 U G V H W I X J Y K Z L A M B N C A O D P E Q F O
 D R S R Y E T Z U H H E R B I V O R E A R W B X P
 E C M I D N C E O F P G Q H R I S N J T K U L V H
 C W D P X P R O D U C E R E Y F Z I G A H B I C I
 O J S A K T L U S M V N W O X P Y V Z R E I R A C
 M B L R C M D N E Y O F D G Q H R O I S J O T K L
 P U D I V E W F X G S Y H Z I A J R B K T M C L E
 O M V A N W O X B D Y T Q U Z A E E T A B N U A V
 S C O N S U M E R V C W E D X E Y F D A G I B B E
 E C L D M E W N F O G H Q M I R J E S K T V T U L
 R H R I S D J T K U V L W M X N R Y O Z P O A Q B
 S C L D O M E N F P R E Y G O P H P I Q J R D K Y
 T F U O V G W I X H Y I Z J A K B L C M D E E O X
 P O F Q Y R Z S A B I O M A S S T B U C V D D W E



FOOD CHAINS AND WEBS
Vocabulary Words and Definitions

Directions: In the spaces provided, write definitions of the following vocabulary words.

1. Food chain-
2. Ecosystem-
3. Riparian-
4. Producer-
5. Consumer-
6. Herbivore-
7. Carnivore-
8. Prey-
9. Predator-
10. Trophic level-
11. Omnivore-
12. Food web-
13. Decomposers-
14. Biomass-
15. Biomagnification-

FOOD CHAINS AND WEBS
Field Form For Food Webs

Directions: Use the following form to list the organisms in the vicinity of your school or your home. List the organisms you observe, and decide if they are consumers or producers. Also list how the organisms get their energy, and what organisms (if any) eat them. Once you have filled in the chart, then create a food web based on the data you have gathered.

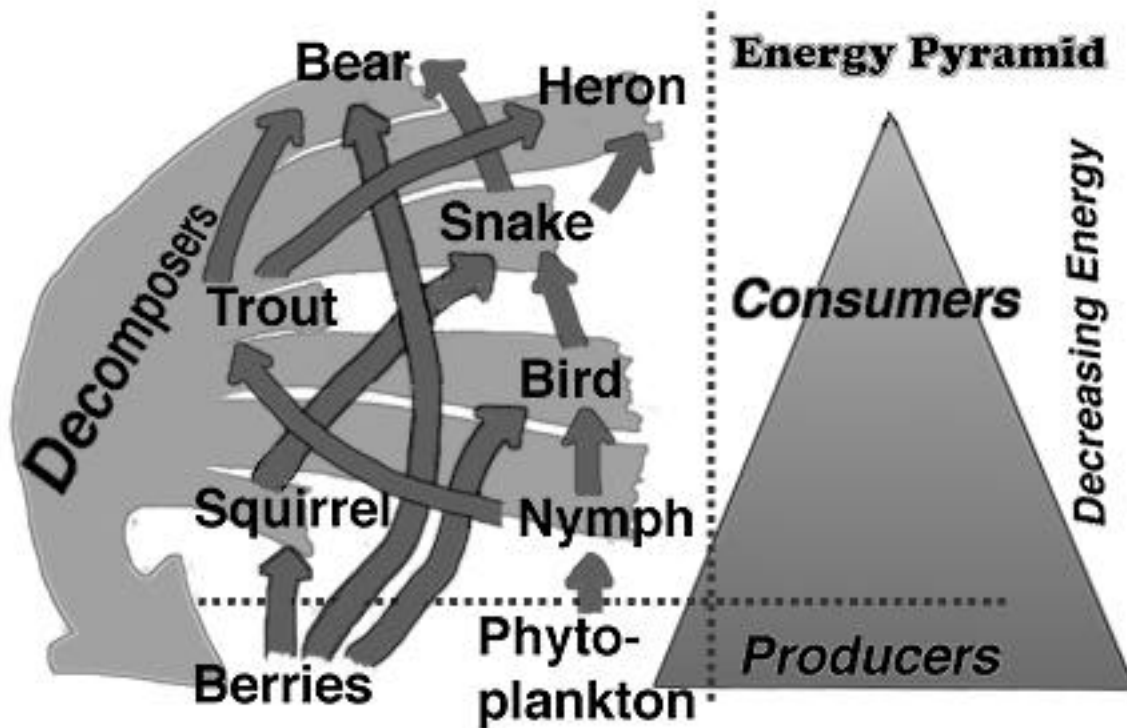
Organism	Consumer or Producer	Derives Energy From	Serves as Food For

Food Web Diagram:

FOOD CHAINS AND WEBS

The Big Picture

Directions: The following complex diagram summarizes many important concepts relating to food webs, cycling of matter, and flow of energy in ecosystems. Take a few minutes to study the diagram, then answer the following questions.



1. What animal(s) on the food web above are on the highest trophic level? What trophic level is it?
2. Define in your own words the term biomagnification. Suppose that in the food web above, phytoplankton absorbed harmful chemicals in the water. Describe how these chemicals could end up in the body of a bear.
3. Describe the role of decomposers in the food web. Describe where the matter they break down goes.
4. Study the pyramid on the right. Describe what happens to the amount of energy as you go up the pyramid. Notice that the pyramid is placed adjacent to the food web. Describe the energy value of the animals at different points in the food web in terms of the energy pyramid.
5. Describe how a biomass pyramid would be positioned on the diagram. What would be the relative amount of the biomass of the organisms on the food web compared to other organisms?

FOOD CHAINS AND WEBS

Name That Critter

Directions: The following clues describe organisms that live in and around a pond ecosystem. Write the name of the animal and decide if it is a producer or consumer. If it is consumer, state if it is a herbivore, carnivore, or omnivore. Use these organisms to create a food web diagram on the back of this sheet.

CLUE	ORGANISM	PRODUCER OR CONSUMER	HERBIVORE, CARNIVORE, OR OMNIVORE
This organism has powerful teeth and strong jaws to cut down large trees. Eats bark and plants.			
This organism looks and even sounds something like a wolf, but is much more common. It visits the pond to look for most anything to eat.			
This organism grows on a prickly vine, and is used to make jam.			
This mammal is tough when cornered, has two black eyes and feeds on nearly everything it can catch in the pond.			
This organism has many fins, feeding on insects and plants.			
This organism lives in the water, has powerful claws, has a hard outer shell, and eats both plants and animals.			
This organism flies in the air, has beautiful wings, and eats mostly plants.			
This amphibian lives mostly in the water, is a great jumper, and catches insects for its food.			
This organism lives in the water, produces its own food from the sun, and is often mistaken for seaweed.			