
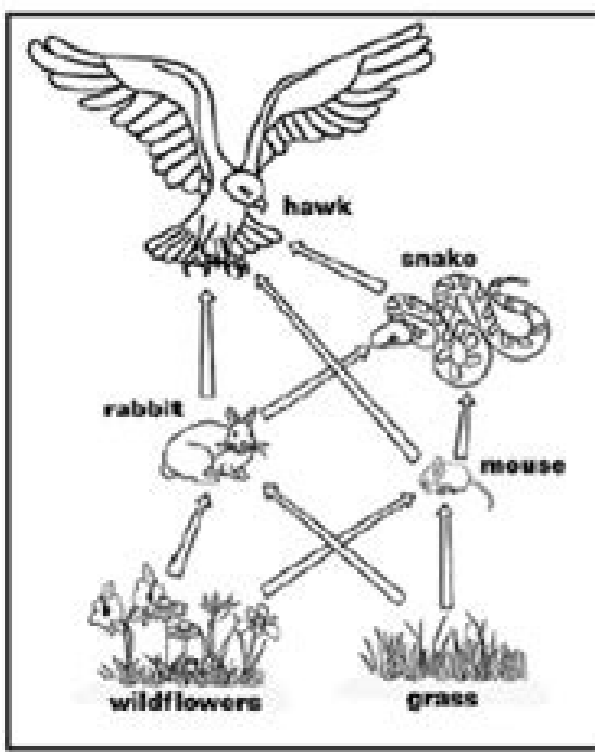


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### Food Web



A food web shows how energy is passed on from one living thing to the next. It shows the feeding habits of different animals that live together in an ecosystem.

In the food web pictured on the left, energy is passed from the grass to the mouse to the snake to the hawk.

Producers are living things that make their own food with sun and air. The producers are pictured at the bottom of the food web.

Consumers are living things that eat other living things.

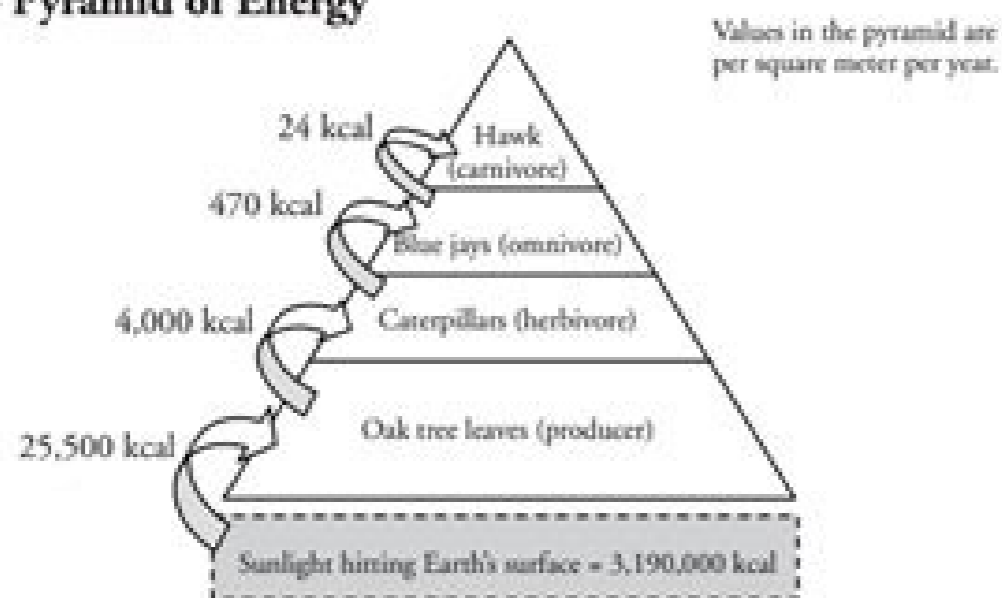
Use the food web in the picture above to answer the questions.

1. Name the living things in the food web that are producers. \_\_\_\_\_
2. Name the living things in the food web that are consumers. \_\_\_\_\_
3. Which living things does the snake eat? \_\_\_\_\_
4. Which living things does the hawk eat? \_\_\_\_\_
5. What is eaten by the rabbit? \_\_\_\_\_

### Why?

Every organism in an ecosystem is either eating or being eaten. When cows eat grass, they obtain some of the energy that the grass transferred from the sunlight it absorbed. If cows could carry out photosynthesis, would they have access to more energy than they get as herbivores? Which organisms in an ecosystem require the most energy to sustain life?

### Model 1 - Pyramid of Energy

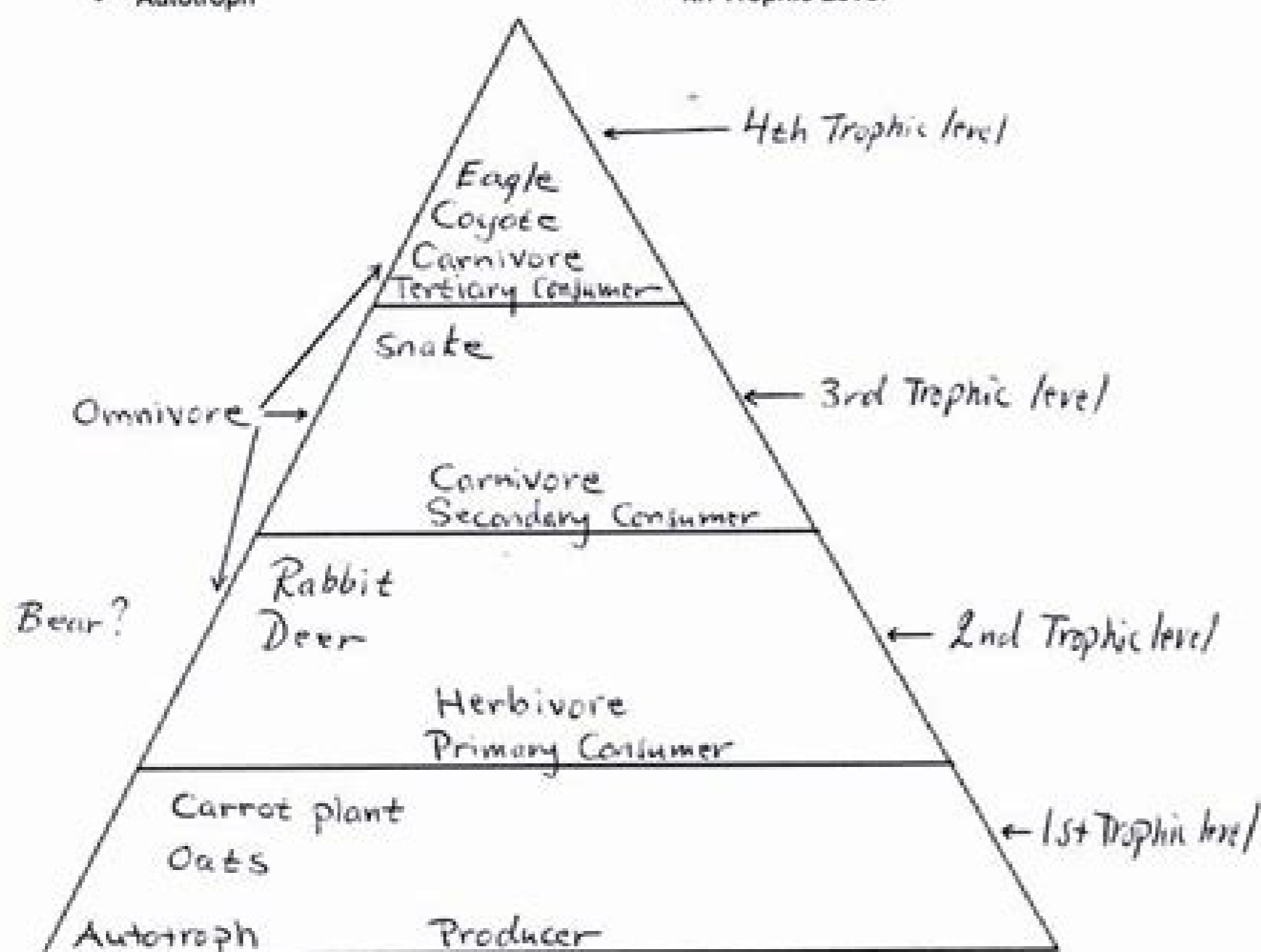


### Energy Pyramid

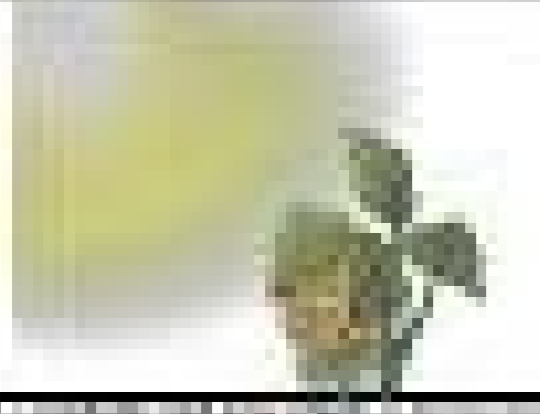
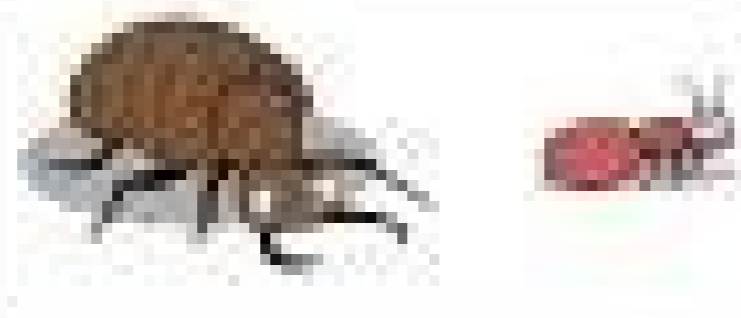
1. Use at least three of the organisms listed below to create a food chain

2. Place each of the following and terms in the correct location on the ecological pyramid provided

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Rabbit</li> <li>• Carrot plant</li> <li>• Eagle</li> <li>• Bear</li> <li>• Oats</li> <li>• Deer</li> <li>• Coyote</li> <li>• Snake</li> <li>• Omnivore</li> <li>• Autotroph</li> </ul> | <ul style="list-style-type: none"> <li>• Carnivore</li> <li>• Herbivore</li> <li>• Producer</li> <li>• Secondary Consumer</li> <li>• Primary Consumer</li> <li>• Tertiary Consumer</li> <li>• 2nd Trophic Level</li> <li>• 3rd Trophic Level</li> <li>• 1st Trophic Level</li> <li>• 4th Trophic Level</li> </ul> |
|---|---|



Amesha Systems | Video Review: Ecological Relationships

<p>1. Under what conditions would you expect to find the greatest number of producers in an ecosystem?</p>	<p>2. Which scenario, predator or prey, is most likely to have the greatest impact on the ecosystem?</p>
	



Name: Manuel Tzul

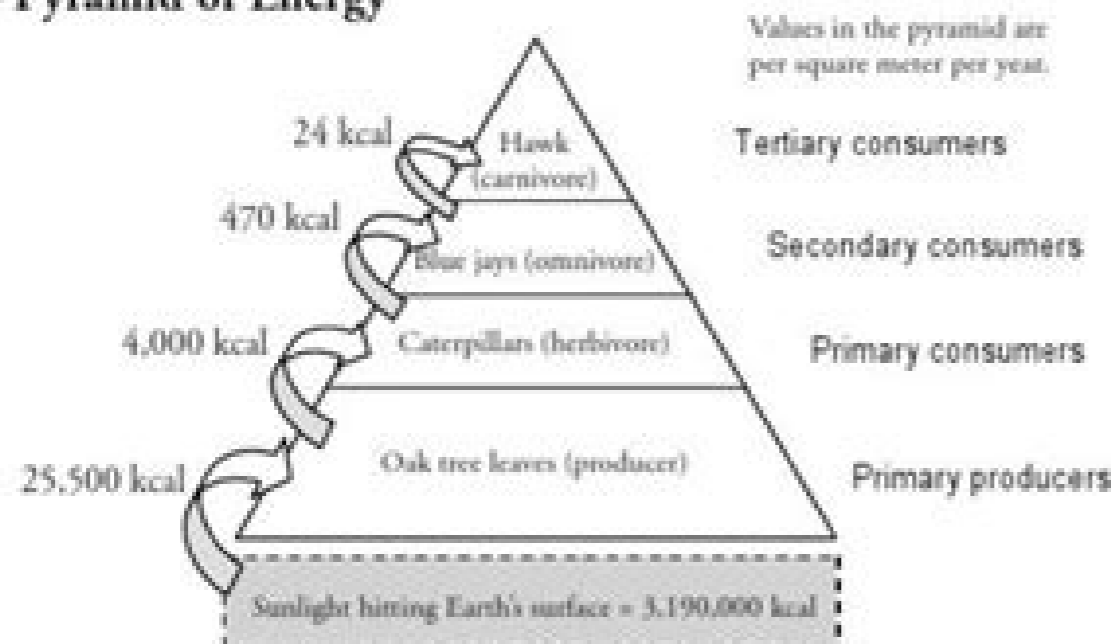
### Ecological Pyramids

How does energy flow through an ecosystem?

#### Why?

Every organism in an ecosystem is either eating or being eaten. When cows eat grass, they obtain some of the energy that the grass transferred from the sunlight it absorbed. If cows could carry out photosynthesis, would they have access to more energy than they get as herbivores? Which organisms in an ecosystem require the most energy to sustain life?

#### Model 1 – Pyramid of Energy



- A unit used to measure energy is the **kcal**.
  - What is the source of all energy in the pyramid in Model 1?  
The source of energy is the sun.
  - How much energy does this source provide to a square meter of the Earth per year? (Be sure your answer includes units.)  
3190000kcal per square meter per year
- Label the pyramid levels in Model 1 with the following: primary producers, primary consumers, secondary consumers, and tertiary consumers.
- The arrows in Model 1 represent the energy available to the next level of the pyramid.
  - What percentage of the source energy from Question 1a is absorbed by the oak leaves in Model 1?  
The percentage of energy that is absorbed by the oak leaves is 0.799kcal.
  - By what process do the oak leaves harness this energy?  
The oak leaves harness energy through photosynthesis.

Write them on page 5 in your OnTRACK Biology Journal. Once your food web is complete, label each of the following: Producers Consumers Herbivores Omnivore Carnivore Decomposers Scavengers Additionally, complete the following and post near or on your food web diagram: Describe the food web and the places on Earth where this ecosystem and these organisms might be found. In most ecosystems, feeding relationships are much more complicated than the relationships shown in a food chain. Compare and contrast a food chain and a food web on the graphic organizer on page 6 of your OnTRACK Biology Journal. Remember to draw the arrows moving in the direction that the matter and energy are flowing. Include some of the new terms you have learned in your questions by referring to page 4 of your OnTRACK Biology Journal. Compare your notes to those of a classmate. Make sure you both have a complete set of notes that includes all the terms from the video. The requested URL was not found on this server. Use available resources to research and answer your questions and write them in your journal. In every ecosystem, organisms are linked through feeding relationships. The point of the arrow goes to who is doing the eating. If you're behind a web filter, please make sure that the domains \*.kastatic.org and \*.kasandbox.org are unblocked. Ecosystem Research An ecosystem is a community of living organisms in conjunction with the nonliving components of their environment (things like air, water, and soil), interacting as a system. There are a great many feeding relationships in any ecosystem, but energy always flows from primary producers to various consumers. You will use this information later. You can show your food web on a poster or through a digital graphic organizer created online such as in Lucidchart or in Google Drive with Google Drawings. Choose one type of ecosystem you are curious about and brainstorm at least three questions to research. Use the Venn diagram to list the features of a food chain and food web as well as what the two have in common. Use the graphic organizer on page 4 in your OnTRACK Biology Journal to take notes from the video. Here is an example of a food chain from the video. Notice that the arrows point in the direction of the energy flow. The network of feeding interactions is called a food web. Additionally, a 404 Not Found error was encountered while trying to use an ErrorDocument to handle the request. Check Your Learning Drag the circle icon and place it over the arrow that is pointing in the correct direction in the following diagram. Make Your Own Food Web Now that you have seen an example of a food web, refer to the ecosystem you researched in the first section of this resource and create a food web to show how matter and energy flow between organisms that are likely to live in that ecosystem. In the video, the Everglades ecosystem was used to show how energy and matter flow from one organism to another. These feeding relationships are represented by food chains and food webs. A food chain is a sequence in which organisms transfer energy by eating and being eaten. View the video to see an example of a food web from the Everglades ecosystem. If you're seeing this message, it means we're having trouble loading external resources on our website. Apache/2.4.41 (Ubuntu) Server at join.nsea.org Port 443 Now view the video to review the components of a food chain and see a real life example in the Everglades ecosystem, which is a region of tropical wetlands found in the southern portion of Florida. In Texas, we have many ecosystems, such as deserts, mountains, plains, prairies, seacoasts, timberlands, and marshes. If you don't, view the video again. What other kinds of ecosystems do you know about?

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