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**Chapter 5 Lesson 2**

*Page 200 and 201 Energy Transfer*

* Before reading, match each vocabulary word with the definition you think it belongs to.
* Read the focus skill. Keep this in mind when reading this section.
* Read the section with your partner.
* After reading, fix the vocabulary section if you need to.
* Fill in the blanks for numbers 7-13
* Answer the questions and label the food chain.

1. ecosystem \_\_\_\_\_ a. an animal that eats only

producers

1. herbivore \_\_\_\_\_ b. a community of organisms and

the environment in which they

live

1. carnivore \_\_\_\_\_ c. a consumer that gets food energy

by breaking down the remains of

dead plants and animals

1. omnivore \_\_\_\_\_ d. transfer of food energy between

organisms

1. food chain \_\_\_\_\_ e. an animal that eats both plants

and animals

1. decomposer \_\_\_\_\_ f. an animal that eats other animals
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the main producers in most land ecosystems.
3. An ecosystem includes many kinds of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. When an animal eats a plant, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ stored in the plant is transferred to the animal.
5. Herbivores are also called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. When an animal eats another animal, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ stored in the eaten animal gets transferred to the animal that is eating it.
7. Carnivores are also called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. When a large carnivore eats a smaller carnivore, they are called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. Why can omnivores be first-level or second-level consumers? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. When plants and animals die, what happens to the food energy stored in their remains?

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1. How do decomposers connect both ends of a food chain?

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1. Do the caribou and wolf make their own energy? How do they get energy?

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1. What do consumers and decomposers have in common?

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**Label the food chain below. Each organism may have more than one name.**

Moss 🡪 Caribou 🡪 Wolf 🡪 Bear 🡪 Earthworms

\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

*Page 202 and 203 Food Webs*

* Read the focus skill. Keep this in mind when reading this section.
* Read the section independently.
* After reading, answer the questions and fill in the food webs with your partner.

1. What is a food web?

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1. How do carnivores help keep an ecosystem in balance?

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1. If all the mosquitoes in a pond died, what might happen next?

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1. Use the text to help you fill in the food web with the following organisms: mouse, bison, grass, snake, hawk, squirrel
2. In the prairie food web, which organisms give energy to the hawk?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In the prairie food web, which organisms does the grass give energy to?

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1. Use the text to help you fill in the food web with the following organisms: snail, plant, tadpoles, insects, fish, duck, turtle
2. In the pond food web, which organisms give energy to the snail?

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1. In the pond food web, which organisms does the fish give energy to?

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*Page 204 and 205 Energy Pyramid*

* Read the focus skill. Keep this in mind when reading this section.
* Read the section as a class.
* After reading, answer the questions below as a class.

1. What percent of the energy they make do producers use for their life processes? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What percent of their energy do first-level consumers pass on to second-level consumers? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Why is the base of the energy pyramid so wide?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What might happen if a drought kills most of the grasses in an ecosystem?

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1. What might happen to a food chain if the number of second-level consumers increases?

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1. Use the pyramid in the text to help you answer the following question. If the grasses at the base of the energy pyramid produce 100,000 kilocalories of energy, how many kilocalories would be passed to the…

Locusts \_\_\_\_\_\_\_

Snakes \_\_\_\_\_\_\_

Owl \_\_\_\_\_\_\_