

Ecology Section 2.2

Name _____ **Per** _____

1. Read page 41. Describe the differences between an autotroph and a heterotroph, and give an example of each.

autotroph:

heterotroph:

2. Read about heterotrophs on pp. 41-42. In just a couple words, describe how each of the following gets energy and give an example for each. The first one is done for you.

herbivore: eats only plants (cows)

carnivore:

omnivore:

detritivore:

decomposer:

3. Read the first paragraph on pg. 43 and study Figure 2.13. What is a **food chain**? How many kinds of organisms are in each trophic level (see pg. 42 for a definition of this term)?
4. Read the second paragraph on pg. 43 and study Figure 2.14. What is a **food web**? How many kinds of organisms are in each trophic level?
5. Which is more realistic, a food chain or food web? Why?
6. Read pg. 44. What do **ecological pyramids** show?
7. What are 3 kinds of pyramids that ecologists typically use? (Note, see Figure 2.15).
8. In an ecological pyramid, where are the producers shown, where are the carnivores likely to be shown?