

Name: _____ Period: _____ Date: _____ Score: _____

Food Web Homework

1. Which of these lists all of the carnivores shown in the terrestrial food web?

- a. cougars only
- b. cougars and snakes
- c. cougars, snakes and shrews
- d. cougars, snakes, shrews and mice

2. How many omnivores are shown in the food web? _____

3. What is the rabbit's niche in this ecosystem?

4. What do the deer and red squirrel have in common?

5. What is the trophic level of the deer mouse?

6. Identify at least one of the following types of organisms:

A) Herbivore:

B) Carnivore:

C) Producer:

D) Heterotroph:

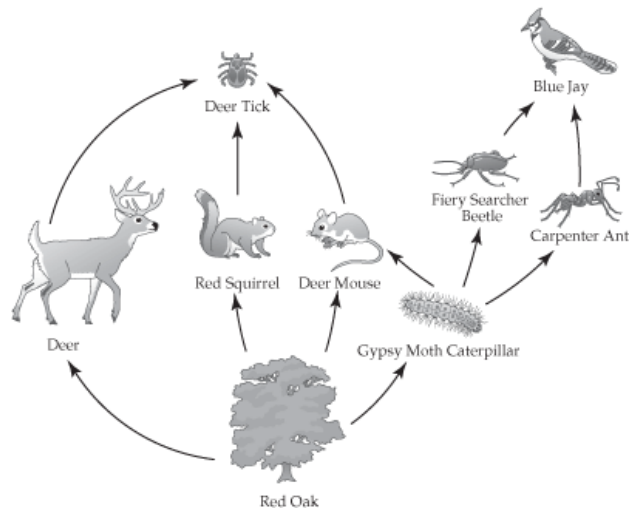
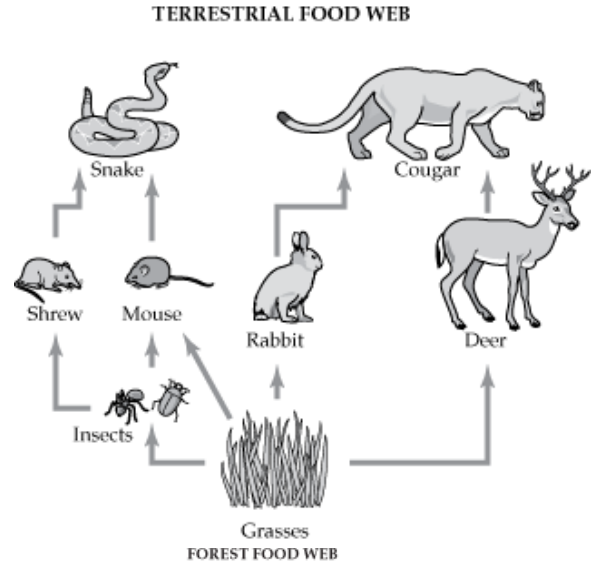
E) Autotroph:

F) Consumer:

7. What do scavengers eat?

8. What is the difference between omnivores and carnivores?

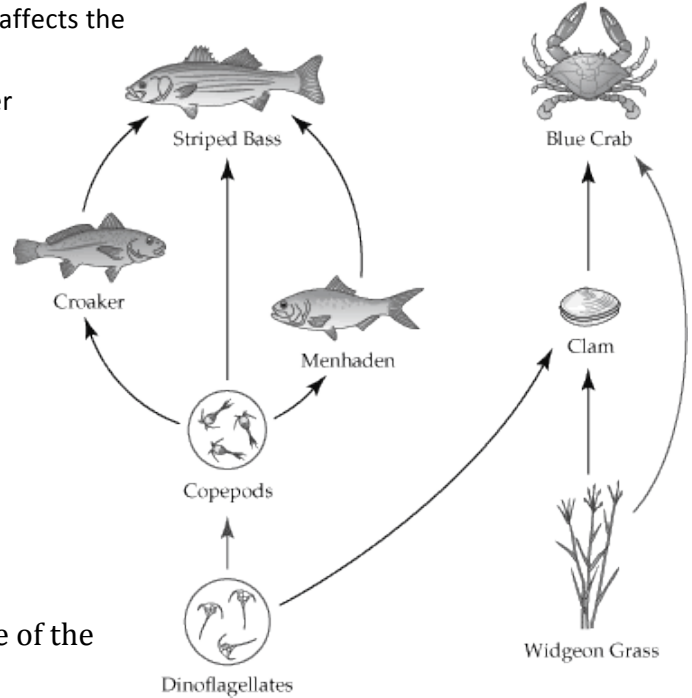
9. Create a food chain in the space below. You may use examples from class today or create your own! **BOX** the producer, underline the consumers, and **circle** the herbivore.



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The diagram below shows the relationships among organisms living in an Atlantic coast estuary.

ESTUARY ECOSYSTEM



10) Which of these is an abiotic factor that affects the organisms in the estuary ecosystem?

- a. The amount of bacteria in the water
- b. The number of copepods
- c. The amount of salt in the water
- d. The number of scavengers

11) The arctic grayling eats fish eggs, insects and small fish. What is the ecological role of the arctic grayling?

- e. Herbivore
- f. Decomposer
- g. Omnivore
- h. Carnivore

12) Which of these best describes the role of the blue crab in the estuary ecosystem?

- a. Carnivore
- b. Herbivore
- c. Producer
- d. omnivore

13) What would happen to an ecosystem if there were no **producers**?

14) What would happen to an ecosystem if there were no **herbivores**? (Be specific!)

15) What would happen to an ecosystem if there were no **carnivores**? (Be specific!)

16) Imagine you ate a huge hamburger for dinner tonight. Create a food chain to show how you are obtaining energy from the hamburger by writing the organisms below the following roles. (Hint: The organisms are you, the cow, and grass!)

Producer -----> **Herbivore** -----> **Omnivore**

17) What would happen to an ecosystem if all organisms had the same niche?