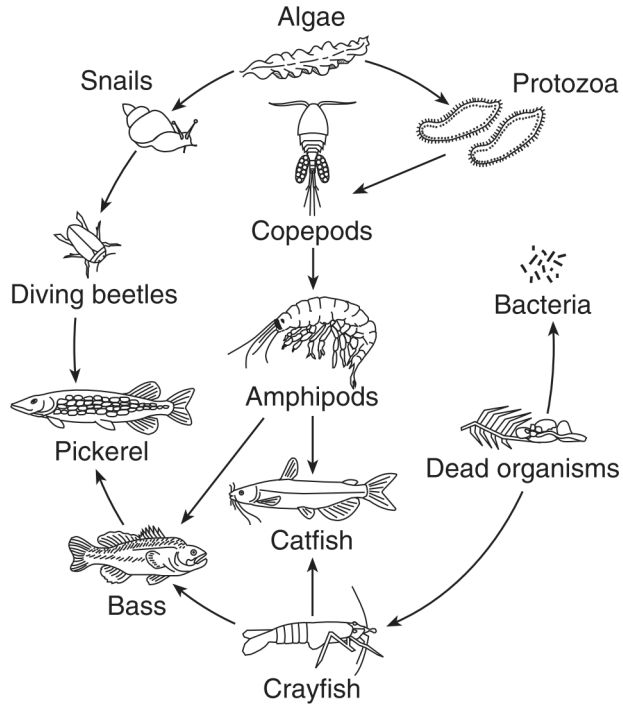


foodwebs threestar

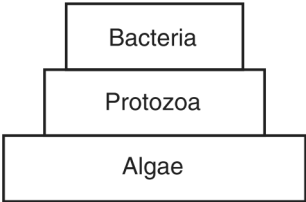
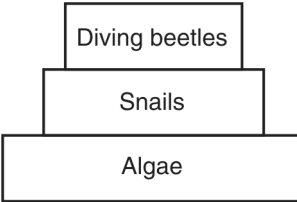
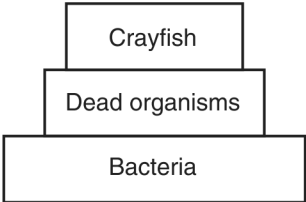
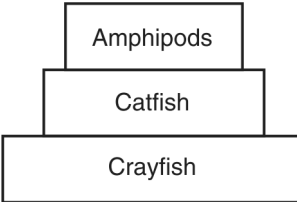
Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Base your answer(s) to following question(s) on the diagram below, which represents a pond food web, and on your knowledge of biology.



Which energy pyramid most accurately shows the energy relationships between three organisms in this food web?

- A. 
- B. 
- C. 
- D. 

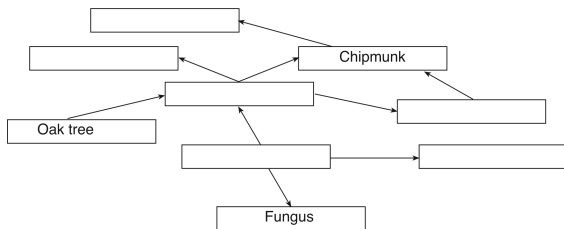
2. Base your answer(s) to the following question(s) on the information below and on your knowledge of biology.

An ecologist made some observations in a forest ecosystem over a period of several days. Some of the data collected are shown in the table below.

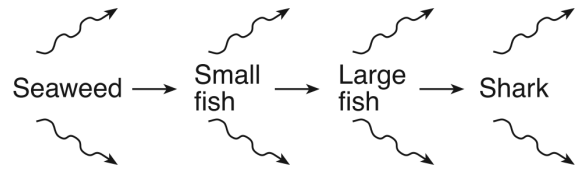
Observations in a Forest Environment

Date	Observed Feeding Relationships	Ecosystem Observations
6/2	<ul style="list-style-type: none"> <li>white-tailed deer feeding on maple tree leaves</li> <li>woodpecker feeding on insects</li> <li>salamander feeding on insects</li> </ul>	<ul style="list-style-type: none"> <li>2 cm of rain in 24 hours</li> </ul>
6/5	<ul style="list-style-type: none"> <li>fungus growing on a maple tree</li> <li>insects feeding on oak trees</li> </ul>	<ul style="list-style-type: none"> <li>several types of sedimentary rock are in the forest</li> </ul>
6/8	<ul style="list-style-type: none"> <li>woodpecker feeding on insects</li> <li>red-tailed hawk feeding on chipmunk</li> </ul>	<ul style="list-style-type: none"> <li>air contains 20.9% oxygen</li> </ul>
6/11	<ul style="list-style-type: none"> <li>chipmunk feeding on insects</li> <li>insect feeding on maple tree leaves</li> <li>chipmunk feeding on a small salamander</li> </ul>	<ul style="list-style-type: none"> <li>soil contains phosphorous</li> </ul>

On the diagram below, complete the food web by placing the names of all the organisms in the correct locations.



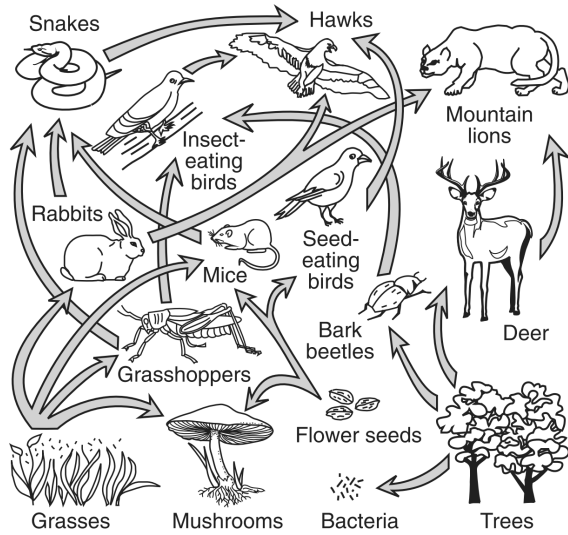
3. A food chain is illustrated below.



The arrows represented as most likely indicate

- A. energy released into the environment as heat
- B. oxygen produced by respiration
- C. the absorption of energy that has been synthesized
- D. the transport of glucose away from the organism

4. The diagram below represents a food web.



Which organisms are correctly paired with their nutritional roles?

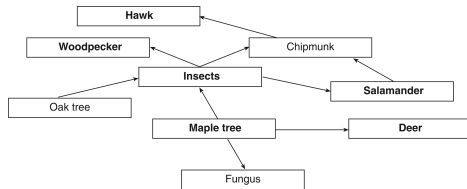
- A. hawk—decomposer; insect-eating bird—parasite
- B. mouse—autotroph; flower seed—heterotroph
- C. mountain lion—predator; bark beetle—herbivore
- D. grasshopper—carnivore; grass—autotroph

5. The flow of materials through ecosystems involves the interactions of many processes and organisms. State how decomposers aid in the flow of materials in an ecosystem.

1.  
Answer:

B

2.  
Answer:



3.  
Answer:

A

4.  
Answer:

C

5.  
Answer:

recycle nutrients