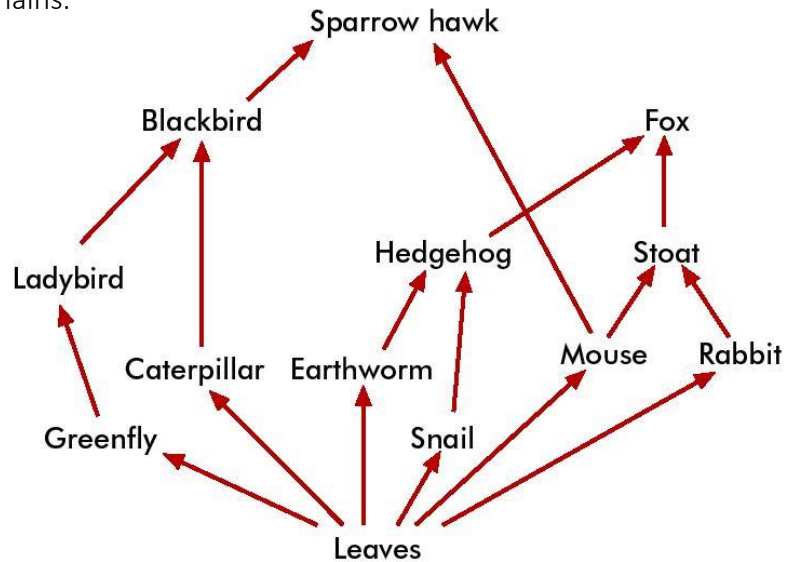


Ecology Book Assignment (Pages 4 –13)

Name _____

1. Define the following terms
 - Ecology
 - Ecosystems
 - Abiotic Factors
 - Biotic Factors
2. What are the levels of ecological organization? Describe from the smallest to the largest.
3. Explain the difference in a producer and a consumer.
4. How are food chains and food webs the same? How are they different?
5. Make a food chain with 4 levels.

6. Using the food web to the right, construct two food chains.



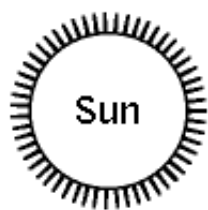
7. What is the producer for this food web?

8. Name 3 consumers in the food web.

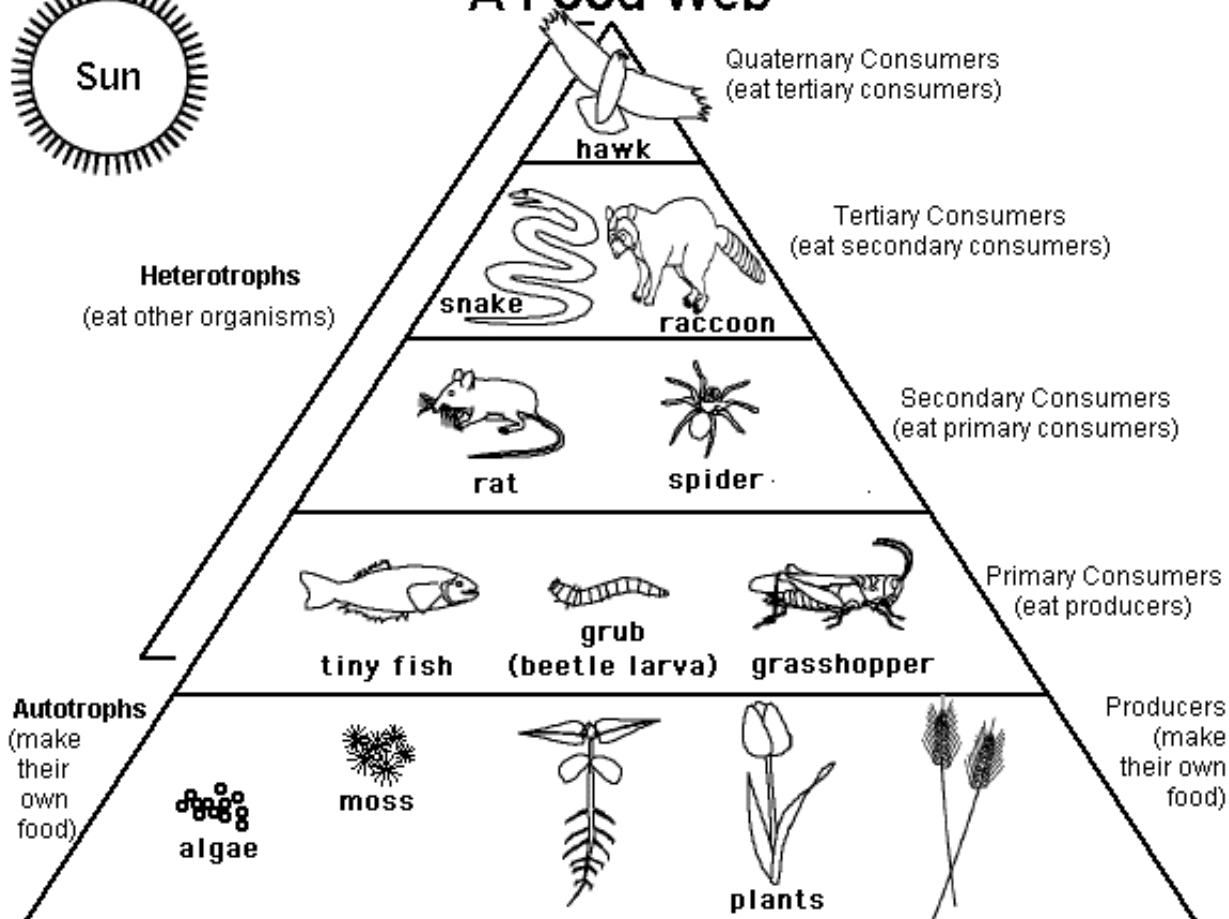
9. How much energy is transferred from one level to the next in an energy pyramid?

10. When energy is transferred, there is also a loss of energy. What form of energy is lost?

11. If it took the same amount of energy to chase a mouse as it did to chase a rat, which do you think a cat would choose to chase? Why?



A Food Web



Questions

1. There are many more _____
than there are primary consumers.
2. Organisms that eat other organisms are called _____.
3. Organisms that make their own food are called _____
or _____.
4. Grass is _____.
5. Zebras (grass-eaters) are _____.
6. Lions (zebra-eaters) are _____.
7. If there is 12,345 kcal of energy available to the producers, how much will be available to the primary consumers? _____ How much will be available to the secondary consumers? _____ How about the tertiary consumers? _____

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8. What is an example of a strategy used to balance energy used to obtain food with energy gained from the food?