Name _____ Date _____ Class _____

Study Guide

CHAPTER 2

Section 2: Flow of Energy in an Ecosystem

In your textbook, read about autotrophs and heterotrophs.

Match the definition in Column A with the term in Column B.

	Column A	Column B
_____	1. get energy by eating other organisms	A. autotrophs
_____	2. eat both plants and animals	B. carnivores
_____	3. eat only animals	C. detritivores
_____	4. collect energy to produce their own food	D. herbivores
_____	5. eat only plants	E. heterotrophs
_____	6. eat or break down dead things	F. omnivores

In your textbook, read about models of energy flow.

Label the food chain below to identify each trophic level. Use these choices:

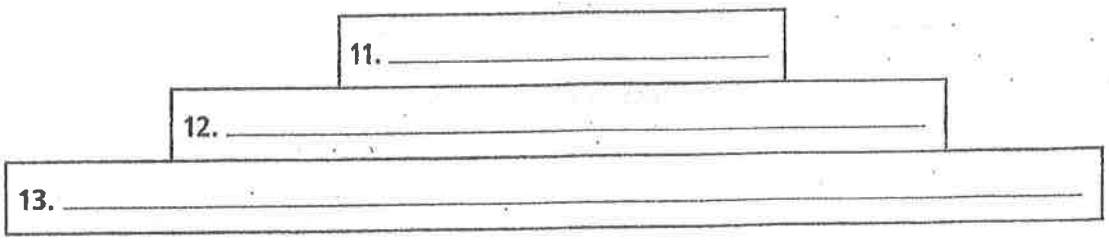
carnivore **herbivore** **omnivore** **producer**

GRASS → GRASSHOPPER → RACCOON → COYOTE

7. _____ 8. _____ 9. _____ 10. _____

Label the ecological pyramid. Use these choices:

primary consumers **producers** **secondary consumers**



Respond to each statement.

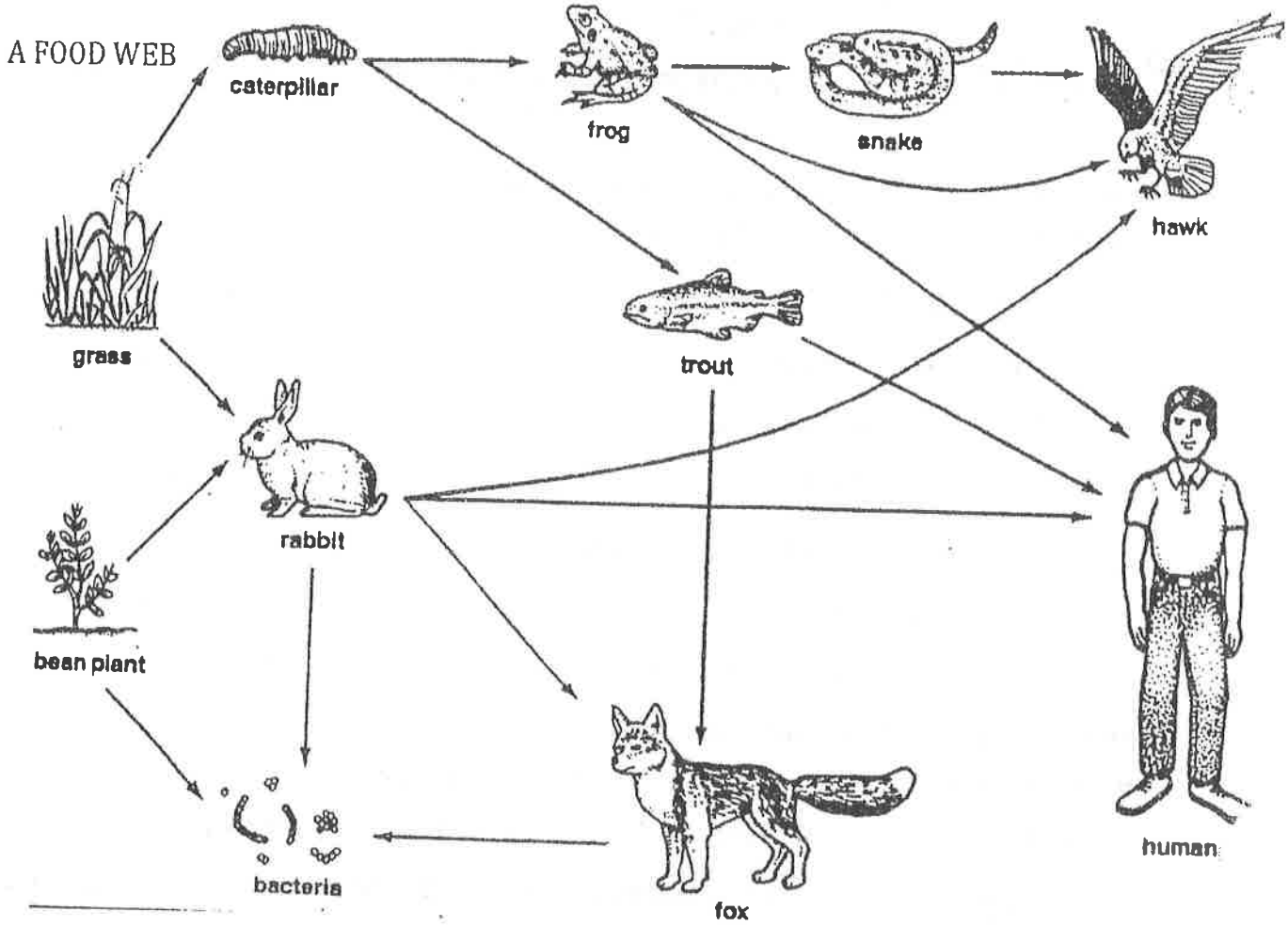
14. **Recall** the name for the total amount of living matter in each trophic level of an ecological pyramid.

_____

15. **Explain** why an ecological pyramid is smaller at the top than at the bottom.

_____

A FOOD WEB



1. Why is a complex food web better than a simple food chain for the survival of a community?

2. How would the community be affected if the trout's population size increased a lot?

3. How would the community be affected if all the bean plants were attacked by a fungus and killed?