SECTION 22-1 REVIEW

ENERGY TRANSFER

	CABU erms.		he terms in each of the following groups
1.	produ	icer, consumer	
	and the responsible beautiful to the second		:
2.	gross primary productivity, net primary productivity		
	Market for the second		
3.	food chain, food web		
ИU	LTIPL	E CHOICE Write the correct letter in	the blank.
	1.	The term biomass refers to the	
		a. weight of the biosphere.b. volume of plants in a community.	c. organic material in an ecosystem.d. amount of energy produced through chemosynthesis.
	2.	A detritivore is an organism that	
		 a. feeds on both producers and consume b. feeds on the "garbage" of an ecosystem c. converts biomass into "garbage" in an d. produces carbohydrates by using energy 	m. 1 ecosystem.
All Mark Appl	3.	An organism's position in the sequence o as its	f energy transfers in an ecosystem is known
		a. trophic level.b. energy level.	c. net productivity.d. feeding location.
	4.	The percentage of energy transferred from	n one level to another in a food chain is usually
		a. greater than 90 percent.b. about 75 percent.	c. about 50 percent.d. less than 20 percent.
	5.	Compared to the lowest trophic level, the	highest trophic level contains
		a. more individuals.	c. more producers.

b. less energy.

d. fewer carnivores.

Nan	ne Class Date
511	DRT ANSWER Answer the questions in the space provided.
1 4.0	Rank the following ecosystems in order of their net primary productivity, from lowest to highest:
	open ocean, tropical rain forest, desert, lake.
2.	Why are producers the first trophic level to benefit from the activity of decomposers?
J.	Give three reasons why energy transfer between trophic levels is not 100 percent.
4,	Why are food chains short?
S.	Critical Thinking What would happen to the energy flow through an ecosystem if the decomposers were eliminated?
	decomposers were eminiated:

STRUCTURES AND FUNCTIONS The diagram below shows part of a food web. Each arrow indicates energy passing from one member (the food) to another (the consumer). Only some of the indicated relationships are possible. Write yes in the spaces corresponding to the possible relationships and no in the spaces corresponding to the relationships that are not possible.

