Study Guide due:	Test on:
entify the composition of	our atmosphere. Include the percentages of each gas.
	and describe each factor's role in the ecosystem.
Abiotic Factor	Role or Importance in the Ecosystem
	, aı

5. Draw the water cycle. Include definitions and arrows showing how water cycles through the atmosphere.

_____ cycle, and _____ cycle.

6. What is transpiration?	
7. Describe the role of animals in the nitroge	en cycle.
8. Describe producers, for example, phytoplo	ankton's role in the Oxygen Cycle.
9. What process is responsible for returning atmosphere?	g carbon to the soil and releasing CO2 back to the
10. Carbon is stored in fossils fuels such as	, and
11. Compare and contrast photosynthesis and	d chemosynthesis.
How are they similar?	How are they different?
12. Describe how nitrogen is necessary for li	ife on Earth.

13. Complete the chart.

Term	Definition	Examples
Producer		
Consumer		
Herbivore		
Omnivore		
• Carnivore		
• Detritivore		
• Decomposers		

14.	Using	the	terms	listed	below,	create	AND	label	a food	chain.	Include	arrows	showing	the
flov	v of e	nerg	y .											

Sun Producer Snake
Mouse Owl Emits energy
Consumer (use 3 times) Grass Herbivore
Carnivore (use 2 times)

15. Matter and energy flow through an ecosystem. Sort the following terms based on how it flows through the ecosystem:

Water, Carbon, Nitrogen, Energy, Oxygen

One Direction	Cycles

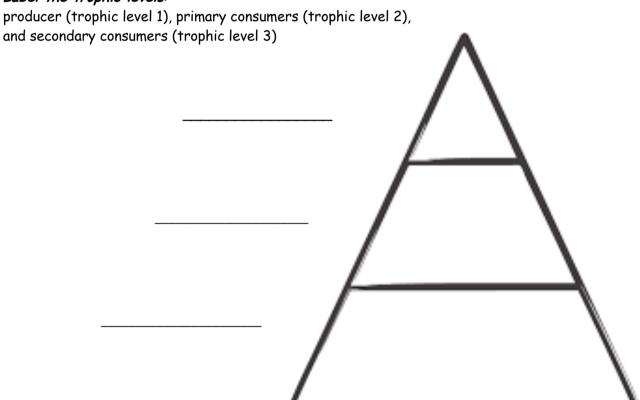
14	Nacaniba	how o	FOOD	VA/ED	is different	than a	FOOD	CLIATAL
10	Describe	now a	トしんりつ	WEB	is ditterent	Than a	FUUL	CHAIN

17. Is a food web or food chain a more accurate description of the energy flow within an ecosystem. Why?

18. Create an energy pyramid. Place the organisms in the correct level:

o Rabbit, flowers, mice, grass, hawk, trees

Label the trophic levels.



19. If 1000 kcal were available at the producer (trophic 1) level of the energy pyramid, how many kcal would be available at the secondary consumer (trophic 3) level?

20. What type of energy is stored in the organisms at each trophic level?