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	in the second se
	Name:
	ergy Flow & Ecosystem Reading Notes pe 119
A 77	What provides energy for the earth?
	2. Humans need to survive.
	3. Plants make their own food from sunlight in a process called in
	which water & carbon dioxide combine to make (sugar). Plants release
	as a waste product.
2	I. In, cells convert food into energy.
5	5. EVERY performs cellular respiration, even cells.
20	Cellular respiration produces as a waste product for
Page	plants to perform photosynthesis.
	The carbon dioxide and cycle is critical to life on Earth.
8	. **Abiotic means
9.	**Biotic means
**You	may have to use a dictionary to look up these words.
). The nitrogen cycle has many steps. Summarize each step below:
	a.
	b.
	c.
	d.
	e.
	f.

e v

Pag	e '	120
. 49	_	

11. While all	are made up of the same molecular building	
blocks, the blocks are arranged	in each organism.	
12. Plants and animals need to make new molecules.	food for energy and	
13. In humans, after the	breaks down each type of	
molecule, the parts are absorbed into	the body. The different take up the	
parts and use them for	(cellular respiration) or to make new	
-		

14. Page 122 Choose one of the matter cycles (carbon dioxide/oxygen or nitrogen) and draw a picture of how it cycles between living and nonliving parts of an ecosystem. <u>Label at least</u> 1 abiotic and biotic factor in your drawing.

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15. An	consists of all the living and nonliving things in a particular
area.	
16. List some examples of biotic	c factors in the picture.
17. List some examples of abiot	ic factors that could be in the picture.
18. Ecosystems can	over time. For example, if a has a
significant change, it can be	felt throughout the entire ecosystem.
19. What is a population?	
20. Any change in a biological co	emponent of an can lead to shifts in
Page 148	
21. Disruptions to any	component of an ecosystem can lead to population
shifts as well.	
22. Observe the pictures on page	148. How do you think these changes impacted the
populations in each ecosysten	n?
	*
9	di .
Ecosystems are amazingly	and can recover from a disturbance.

- 24. Look at the food chain on page 149. What do you think would happen if the beetle was removed from the ecosystem. Choose one answer and explain your reasoning.
 - a. Plant population would increase; fish population would increase
 - b. Plant population would decrease; fish population would increase

 - c. Plant population would stay the same; fish population would decrease
 d. Plant population would increase; fish population would decrease

Why?

Page 150

Using the food web on page 150, choose an animal that will go extinct. Write your choice below:

Describe what would happen to the ecosystem without that population.