Name	
	723
livina thinas?	1111

3-3 Cycles of Matter

1.	What four elements make up most living things?	
2.	Unlike the one-way flow of energy, matter is	_ between ecosystems.
3.	Elements are passed from one organism to another through	cycles.
4.	You inhale oxygen atoms that might have been inhaled by	millions of years ago.
The	e Water Cycle	
5.	The process by which water changes from a liquid form to a gas is	
6.	When water evaporates from the leaves of plants, it is called	
7.	Water returns to the earth in the form of	
	(name 4)	
8.	See Fig 3-11. Condensation leads to	.
9.	See Fig 3-11. Water seeps into ground water which eventually runs into the $_$	or is
tak	en up by	
Nu	trient Cycles	
10.	All the chemical substances that an organisms needs to sustain life is called	
11.	Living organisms use nutrients to build and carry out lif	e processes.
12.	What two elements form carbon dioxide?	
13.	See Fig 3-13. Which of the following activities RELEASE (R) carbon, and w	hich TAKE UP (T) carbon?
	Photosynthesis Respiration Volca	nic Activity
	Erosion Human Activity (burning fossil fuels)	
14.	What percentage of the atmosphere is nitrogen gas?	
15.	What is a major component of plant fertilizer?	
16.	See Fig 3-14. What organism takes nitrogen from the atmosphere?	
	NH ₃ and NO ₂ are taken up by [producers / consumers]	
17.	What important molecule of heredity contains phosphorous?	
18.	Where is phosphorus found in the biosphere?	
Nu	trient Limitation	
19.	The rate at which organic matter is created by producers is called primary	
	What is the limiting nutrient for oceans?	
	What causes algal blooms?	