Na	Name	_ Pd	Date	
	CYCLES	OF THE	EARTH	
Dii	Directions: Answer the following questions after you	have read th	ne "Cycles of the Earth" ar	ticle.
Su	Summary Questions:			
1.	1. What are the four things needed by living things?			
		<i>-</i> /	, and	
2.	2. Bio means			
	Geo means			
	Chemical means			
3.	3. What are the nutrients needed by all living things	s made up of	?	
4.	4. What are the four major cycles on Earth?			
				, and
<u>Th</u>	The Carbon Cycle			
5.	5. Provide at least three examples of where we can	find carbon	on Earth.	
6.	6. How does the Plant Kingdom contribute to the ca	rbon cycle?		
7.	7. How does the Animalia Kingdom contribute to the	e carbon cyc	le?	

The Nitrogen Cycle

8.	"Nitrogen is necessary for	In fact, it is necessary for the
		_!"
9.	What are the Earth's sources of "free nitrogen"?	
10.	What is the role of nitrogen-fixing bacteria in the nitrogen cyc	cle?
11.	How does the Plant Kingdom obtain nitrogen?	
12.	How does the Animalia Kingdom obtain nitrogen?	
13.	What is the role of denitrifying bacteria?	
The	Oxygen Cycle	
14.	How much of the Earth's atmosphere is made up of oxygen?	
15	Which energy role is responsible for keeping the oxygen cycle	going?
ŦJ.	Trinen chargy role is responsible for Recping the oxygen cycle	going:

10.	Explain now photosynthesis works and the role it plays in the oxygen cycle:
17.	What are the basic elements of the water molecule?
	and
	Bonus: How do you write the chemical name for "water"
18.	What process (occurring in the cells of all living things) requires oxygen? (hint: it combines with glucose to create energy for cells)
The	e Water Cycle
19.	How does the water cycle begin?
20.	Where does water vapor come from?
21.	Describe how water returns to the Earth after it has evaporated into the atmosphere. Be sure to include how it
	transitions from water vapor into precipitation.
22.	What is groundwater?
23.	What is runoff?
24.	How does the Plant Kingdom obtain water?
Bor	nus: Why is water needed by organisms in the Animalia Kingdom?