

Name: _____ Date: _____ Period: _____

The Carbon Cycle Game

Wk #: _____

Procedure:

1. You are an atom of carbon. Record your assigned starting location in the Roll #1 row.
2. Go to the station that corresponds to your starting location.
3. Read the introductory paragraph and fill in the column explaining why you are here.
4. Roll the die and record the number you roll. Follow the directions that correspond to what number you roll.
Before you leave this station, record what happened to you in the "Which means..." column.
5. Fill in your next destination in the "Where are you (Carbon) now?" column and travel to that station. (You may stay in the same station for more than one roll.)
6. Once at your new destination, repeat steps 2-5. Travel around the room for a total of 6 rolls.
7. Once you have finished all 6 rolls, return to your seat.

Table 1. My Journey Through the Carbon Cycle

Roll #	Where are you (Carbon) now?	Why are you (Carbon) here? <i>(summarize introduction paragraph)</i>	I rolled a ...	Which means... <i>(summarize "Then you...")</i>
1				
2				
3				
4				
5				
6				

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Table 2. Before Human Disturbance- Amount of Carbon in Each Location

	Atmosphere	Plants	Animals	Soil	Ocean Surface	Ocean Deep	Fossil Fuels
1							
2							
3							
4							
5							
6							
Total							

1. Use Table 2. and 3. to compare the distribution of carbon before and after human disturbance.

Table 3. After Human Disturbance- Amount of Carbon in Each Location

	Atmosphere	Plants	Animals	Soil	Ocean Surface	Ocean Deep	Fossil Fuels
1							
2							
3							
4							
5							
6							
Total							

2. Does a carbon atom always take the same path? Explain your answer.

3. How are humans changing the carbon cycle?

4. Where on Earth do you think carbon is absorbed most quickly? Explain your answer.

5. Where on Earth do you think one can find the biggest reservoir (holding) of carbon? Explain your answer.
