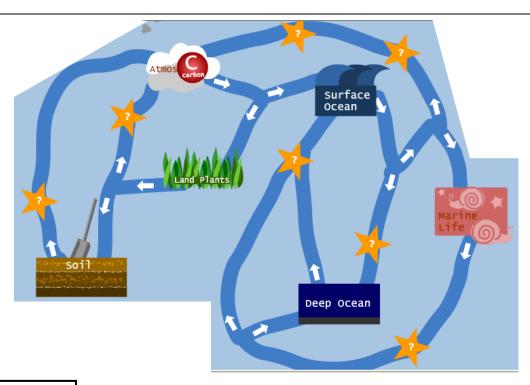


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LINK: http://www.windows.ucar.edu/earth/climate/carbon_cycle.html

Instructions: Answer the questions below as your teacher guides you through the Carbon Cycle activity.

1. What is the difference between a carbon source and a carbon sink? [2 marks]



Atmosphere

2. What form does carbon travel in when in the atmosphere? [1 mark]

3. The amount of carbon dioxide in the atmosphere has increased by 30% in the past 150 years. What has caused this increase and what is the increase causing? [2 marks]

Q: What percent of the atmosphere is carbon dioxide?

0.04%

0.4%

4%

40%





Name:	
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Land Plants

4. What role do land plants play in the carbon cycle? [2 marks]

Q: If atmospheric carbon dioxide levels continue to increase, plants will take in more carbon dioxide and grow faster.

True OR False

Soil

- 5. What is the relationship between plants and the soil in terms of carbon? [1 mark]
- 6. What percentage of the Earth's carbon do soils store? [1 mark]

Q: Soils emit carbon dioxide into the atmosphere.

True OR False

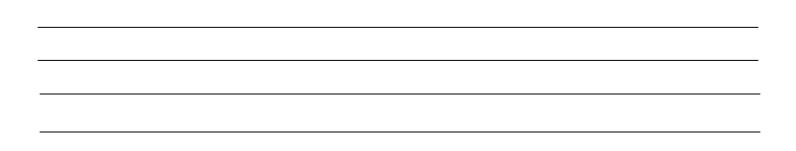
Surface Ocean

7.	The surface ocean takes in more carbon dioxide than land. What are they 3 ways carbon dioxide reaches
	surface ocean? [3 marks]

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8.	Cold water absorbs more carbon dioxide than warm water. Explain why this is a concern keeping in mind
	that carbon dioxide levels are increasing. [3 marks] Hint: What do increasing levels of carbon dioxide
	cause?







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Q: More carbon can dissolve in cold water than in warm water.
True OR False
Deep Ocean
9. How does carbon reach the deep ocean? [1 mark]
ce acce ca. acc. tace acce. ta
Q: The deep ocean accounts for more than of the Earth's carbon.
5% 16% 50% 65%
Or Carbon con't get from the doop eccen to sails on the land. There is a different tune of earlier and
Q : Carbon can't get from the deep ocean to soils on the land. There is a different type of carbon on land. True OR False
Marine Life
10. How does carbon reach large marine life? [1 mark]
Q: Phytoplankton are tiny plants and algae that float in the ocean and take up carbon dioxide as they grow.
True OR False
11. What are the six carbon sources? [3 marks]
12. Look at the image of the carbon cycle on the first page of this Activity sheet. Can carbon from marine become carbon in the atmosphere? Explain. [2 marks]

