

ONLINE CARBON QUEST

name _____ hr _____

<https://biomanbio.com/HTML5GamesandLabs/EcoGames/carbonquest-page.html>

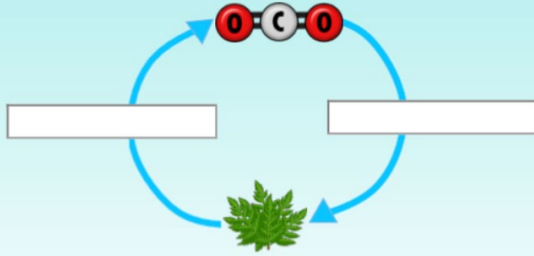
1. In order to succeed you will need to cycle through the _____ , _____ , _____ , and _____.
2. You begin your quest as a molecule of _____ in the _____.
3. If you chose ocean, What 2 things can you do from the ocean location?

4. If you entered algae, carbon is used to form _____ molecules.
5. If you chose producer... during photosynthesis what is carbon used for?

6. Once you are in the plant, what 4 options are there for getting the carbon out again?
 - a. _____
 - b. _____
 - c. _____
 - d. _____
7. If the plant gets eaten, where does the carbon go? _____
8. If the mouse gets eaten, where does the carbon go? _____
9. The process that uses carbon-based food to produce usable energy is called? _____
10. What do you breathe out during respiration? _____
11. If the plant dies and decomposes which 2 types of creatures are now doing respiration?

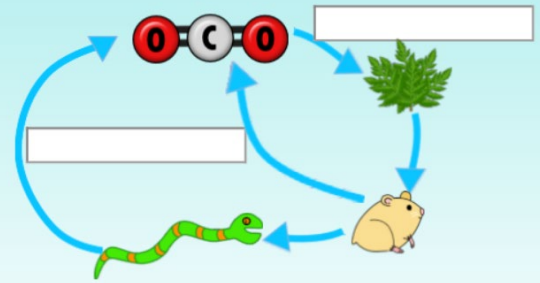
12. After respiration, where does carbon go? _____
13. If the plant gets used for energy, what carbon molecule is released? _____
14. If you die and fossilize, what does the carbon become? _____
15. Burning fossil fuel is called _____.
16. What does combustion release? _____

Here is a very simple model of part of the carbon cycle. Place the applicable labels where they should go, then click "Submit Response."



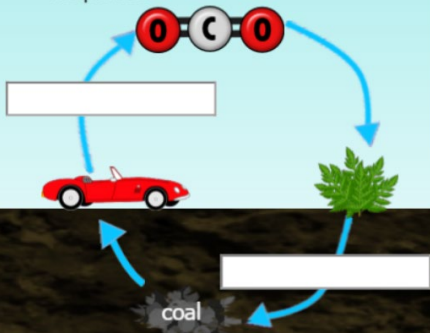
- Respiration
- Photosynthesis
- Fossil Fuel Formation
- Decomposition
- Combustion

Here is another model of part of the carbon cycle. Place the applicable labels where they should go, then click "Submit Response."



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- Respiration
- Photosynthesis
- Combustion
- Fossil Fuel Formation

In Carbon Quest, carbon cycled between the following. Match each of these with their meanings (drag and drop).

Atmosphere

Geosphere

Biosphere

Hydrosphere

Living Things

Water

Rocks/Minerals

Air

How does carbon from the plant get to the hamster and then to the snake?

- The hamster and the snake do photosynthesis to get the carbon.
- It passes through the food chain when the animals eat.
- The hamster and the snake get the carbon by doing respiration.
- The plant passes the carbon to the animals with an energy burst.
- All of these options are correct and awesome!

What is the name of the gas that is released into the atmosphere during respiration?

- Glucose
- Phosphorus
- Nitrogen
- Oxygen
- Carbon Dioxide

Which of the following processes removes carbon dioxide from the atmosphere and puts it into a living thing?

- Fossil Fuel Formation
- Combustion
- Respiration
- Photosynthesis
- Decomposition

Respiration and combustion (burning) both produce....

- Glucose
- Oxygen
- Carbon dioxide
- Coal
- All of these