**Carbon Cycle**

Multiple Choice

1. In relation to the carbon cycle, describe what photosynthesis allows plants to do.
2. Absorb methane from the earth’s atmosphere.
3. Absorb oxygen from the earth’s atmosphere.
4. Absorb carbon dioxide from the earth’s atmosphere.
5. Absorb water from earth’s atmosphere.
6. Recall which of the following options is not a form of biospheric carbon.
7. Carbohydrates.
8. Methane.
9. Fats.
10. Proteins.
11. Determine if the following statement is true or false.

"Humans are the only living organisms that release carbon dioxide into the atmosphere."

1. True
2. False
3. Determine if the following statement is true or false. "There is not an endless supply of carbon on Earth."
4. True
5. False
6. Recall how carbon can enter the lithosphere.
7. Dissolution into bodies of water.
8. Absorption by plants.
9. Decomposition of dead organisms.
10. Respiration and burning of fossil fuels.
11. Recall some of the ways that carbon can be released into the atmosphere.
12. Animal wastes, photosynthesis and burning of fossil fuels.
13. Animal wastes, burning of fossil fuels and respiration.
14. Decomposition, photosynthesis and respiration.
15. Photosynthesis, burning fossil fuels and respiration.
16. List the forms of atmospheric carbon.

Choose more than one answer.

Select ALL correct options

1. Methane
2. Ethanol
3. Calcium carbonate
4. Carbon dioxide
5. Recall how methane release levels have been increased by human activity.
6. Deforestation
7. Keeping greenhouses
8. Agriculture
9. Breathing
10. State the types of gas that carbon dioxide and methane are.
11. Noble gases
12. Woodhouse gases
13. Greenhouse gases
14. Outhouse gases
15. Methane and carbon dioxide are greenhouse gases.

Clarify what this statement means.

1. They let heat escape through the atmosphere and decrease Earth’s temperature.
2. They speed up the growth of plants.
3. They are a type of fertiliser.
4. They trap heat in the atmosphere and increase Earth’s temperature.
5. Recall what happened around 200 years ago that contributed to a substantial increase in atmospheric carbon?
6. The Industrial Transformation
7. The Industrial Rebellion
8. The Industrial Rotation
9. The Industrial Revolution
10. Recall which of the following options are ways of increasing carbon dioxide (CO2) levels in the atmosphere.
11. Burning fossil fuels, cow flatulence
12. Inhaling, cow flatulence
13. Exhaling, burning fossil fuels
14. Inhaling, burning fossil fuels
15. Name one of the largest absorbers of atmospheric carbon from the list below.
16. Factories
17. Fossil fuels
18. Oceans
19. The lithosphere
20. Describe what happens to the ocean when it absorbs carbon dioxide.
21. It becomes more basic.
22. It becomes more acidic.
23. Its pH increases.
24. There is no change.

Fill in the blanks

1. Use the following words to fill in the gaps.

**nitrogen, recycling, bicycling, carbon, atmosphere**

The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cycle is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of carbon through living and non-living things.

Carbon is recycled through the soil, water, living things and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Use the following words to fill in the gaps.

**increasing, less, absorb, decreasing, destabilised, stabilised, more, release**

Humans have been releasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_ CO2 than has been released previously in Earth’s history and cutting down the trees that would usually \_\_\_\_\_\_\_\_\_\_\_ the atmospheric CO2.

By \_\_\_\_\_\_\_\_\_\_\_\_\_\_ CO2 output and decreasing the ability to absorb it, atmospheric CO2 levels have been \_\_\_\_\_\_\_\_\_\_\_\_\_.