

#  **THE CARBON CYCLE**

#  **Crossword Puzzle**



**Across**

6. In this process carbon can be moved from one biotic component

 in the food web to the next.

9. Carbon dioxide is an example of a \_\_\_ because it traps heat in

 the atmosphere and increases our global temperatures.

10. This pigment is used to capture sunlight during photosynthesis.

12. Decomposers turn detritus to \_\_\_ which then get assimilated by

 producers.

13. This is partially decomposed plant matter that can be found in

 bogs and swamps.

15. A carbon \_\_\_ is a storage area for carbon. It keeps it from

 combining with oxygen and forming carbon dioxide.

16. This solid fossil fuel is found through digging into the land, and

 often through the removal of mountains.

17. Another term for oil is \_\_\_ .

23. \_\_\_ are non-renewable energy sources created from the

 remains of ancient plants and animals.

26. This fossil fuel is composed mainly of methane gas, and it can

 be transported using pipelines across the country.

27. These organisms turn detritus into nutrients in the soil.

28. \_\_\_ provides the energy for photosynthesis.

29. This process converts dead remains into fossil fuels.

30. During photosynthesis, \_\_\_ as well as glucose are produced as

 products.

31. \_\_\_ and water are the reactants of photosynthesis.

**Down**

1. Carbon can be found dissolved in water as carbonate and \_\_\_

2. This gas has the formula CH4.

3. Much of the carbon found in oceans is combined with calcium and

 oxygen to form this compound which can be found in seashells.

4. This process adds carbon dioxide to the atmosphere through the

 burning of fossil fuels and trees.

5. This process is performed by all living things and it allows them to

 convert glucose into energy.

7. This is the process of removing all the trees from an area of land.

8. \_\_\_ and \_\_\_ are two processes that convert living things into

 detritus and nutrients.

9. C6H12O6 is called \_\_\_ and is a product of photosynthesis.

11. A person’s \_\_\_ represents the amount of greenhouse gases that

 he/she produces through all the activities they engage in.

13. This process is used by plants in order to create glucose.

14. These organisms perform photosynthesis.

18. The pigment chlorophyll is this colour.

19. Unlike consumers, producers and detritus, fossil fuels represent

 a \_\_\_ carbon reservoir.

20. Carbon can be stored in \_\_\_ carbon reservoirs like producers,

 consumers and detritus.

21. This is the waste matter and remains of once living organisms.

22. During cellular respiration \_\_\_ as well as carbon dioxide are

 produced as products.

24. \_\_\_ is the country that produces the most oil in the world.

25. These organisms assimilate carbon from producers as well as

 other consumers.