

Go to the following website to answer the questions below (there is a link from Ms. P 's website):
http://prof.danglais.pagesperso-orange.fr/animations/environment/natural_cycles/carbon_cycle_version2.html

1. Name all the places where carbon exists:
 - a.
 - b.
 - c.
 - d.
 - e.
 - f.
 - g.
2. List all the roles that plants and trees perform in the carbon cycle on land:
 - a.
 - b.
 - c.
3. After leaves decompose, what may happen to the carbon in them?
4. What is the process called where gases move between the ocean's surface and the atmosphere?
5. How does carbon get from the atmosphere into fish and then into the ocean sediment?
6. How does carbon from the ocean water get into shells that settle on the ocean floor?
7. Can carbon get from the deep ocean back into the atmosphere? If yes, explain how.
8. What are two major ways that humans affect the carbon cycle?
 - a.
 - b.
9. How can these actions contribute to global warming?
10. Take the quiz. Your quiz score = _____%

Go to the following website to answer the questions below (there is a link from Mr. A.'s website):

http://fc.deltasd.bc.ca/~mannandale/sc10/hw/EP_carbon_cycle.swf

1. Fill out all the missing information on the Carbon Cycle diagram provided.

2. Using your carbon cycle diagram answer the following questions:
 - a. How many gigatonnes of carbon are exchanged from terrestrial vegetation to the atmosphere each year and what is this process called?

 - b. What form of carbon is emitted from volcanoes?

 - c. How long does it take for carbon to be deposited into deep stores within marine sediments and sedimentary rocks?

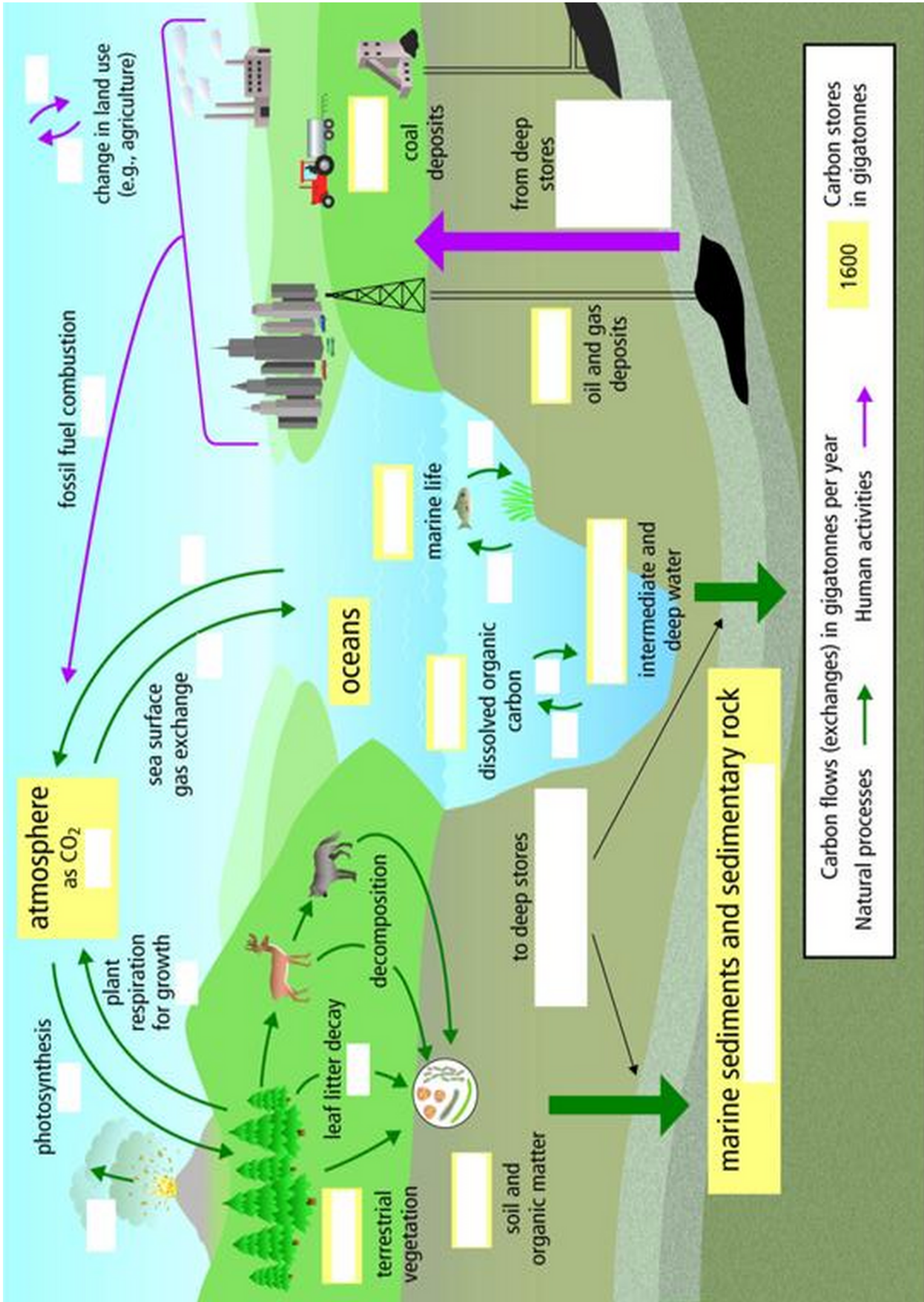
 - d. How long does it take for carbon to be removed from deep stores (usually by mining or drilling of oil and coal deposits)?

 - e. How much carbon is transferred to the soil through leaf litter decay and decomposition?

 - f. How much carbon is emitted into the atmosphere through fossil fuel combustion each year?

 - g. How much carbon is exchanged between the oceans and the atmosphere each year?

3. Write down your favourite carbon fact. (a different fact is reported in the black bar at the bottom of the diagram each time you click on one of the side menu buttons.)



The carbon cycle

Data current as of 2008

1. In which **inorganic molecule** is carbon normally found ? ' _____
2. **Name an organic molecule** in which carbon is found. _____
3. **What molecule** do trees get their carbon from? _____
4. **Where** do primary consumers get their carbon from? _____
5. **What process** adds carbon to the atmosphere? _____
6. **What process** removes carbon from the atmosphere? _____
7. **How** does oxygen get into the water? _____
8. **What** do producers produce? _____
9. **List 3 groups** of producers? _____
10. **What group** eats producers? _____
11. **How** does carbon get back into the atmosphere from the food we eat?

12. **Where** do secondary consumers get their carbon from? _____
13. **Where** does an animal's or plant's carbon go when it dies? _____
14. **Why** should the amount of carbon in the atmosphere stay the same?
15. **How** is extra carbon getting into the atmosphere today? _____
16. **Describe 3 ways** that we could reduce the extra carbon that is getting into the atmosphere.
 - 1.
 - 2.
 - 3.

Name _____

Carbon Cycle Worksheet



In the space below, draw your own version of the carbon cycle. Use arrows to show which way the carbon is going.

Label:

Producers
Primary Consumers
Secondary Consumers