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Initials

Environmental Literacy Carbon Assessment: --- Elementary School Level, Form C ---

Science is easier to understand if you can make connections between what you know now and the new ideas that you are studying. This is a test that will help us to understand what you know now. Please answer these questions as carefully and completely as you can. If you are not sure of the answer, please write about any thoughts that you have. If you can help us to understand how you think about these questions, then we can do a better job of explaining science in ways that make sense to you.

Please put your initials (not your full name) in the boxes

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First Middle Last

Date _____

Class _____ Teacher _____

1. What happens to the wood of a match as the match burns? When a match burns, it loses weight and becomes smaller. What happens to the stuff that was originally part of match?



2. A small acorn grows into a large oak tree.
a. Which of the following is FOOD for plants? (circle ALL correct answers)

Soil Air Sunlight Fertilizer Water
Minerals in soil Sugar that plants make

b. What is the difference between things that are food and are not food for plants?

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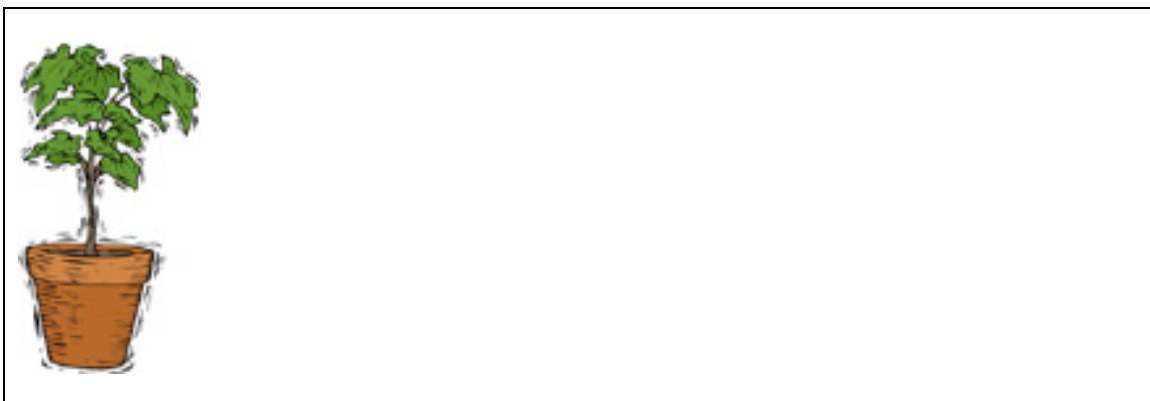
3. How is the air you breathe out different from the air you breathe in? Where does it change and how does it change?

4. Why do animals and people need to eat, but nonliving things such as table and stone do not need to eat?

5. Do you think plants need light to live? Why? Please choose the ONE answer that you think is best.

- a. Not all plants need light to live.
- b. Light warms the plants.
- c. Without light, plants will die in darkness.
- d. Light helps plants to be healthy.
- e. Light helps plants to make foods.
- f. Light helps plants breath.

Please explain why you think that the answer you chose is better than the others. (If you think some of the other answers are also partially right, please explain that, too.)



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6. Suppose all the plants on earth died. Could any people still live?

Circle one: Yes / No

Explain your answer.

7. What does a person need in order to run? Please circle Yes or No for each of the following and explain your choices.



Things	Does the person need it to run?	If the person needs it to run, how does the person use it?
Food	Yes No	
Water	Yes No	
Air	Yes No	
Energy	Yes No	
Sleep	Yes No	

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8. A tree falls in the forest. After many years, the tree will appear as a long, soft lump barely distinguishable from the surrounding forest floor.



a. The lump on the forest floor weighs less than original tree. Where would you find the matter that used to be in the tree? What happened to it?

b. What caused those changes in the wood? Explain as well as you can how these changes happened.

c. Is energy involved when the tree decays?

Circle one: Yes / No

If your answer is **yes**, please explain how energy is involved.

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9. An apple is eaten by a child and digested in his body. a. What happens to the apple when it is digested?

b. Do you think the apple the child ate with his mouth can help his feet to grow? If your answer is yes, please explain how the apple can help the child's feet to grow. If your answer is no, please explain why the apple cannot help the child's feet to grow.

10. Some people say that cutting down trees in a forest will increase global warming. Do you agree? Please explain why.

11. During winter, many animals have difficulty finding food and may hibernate. These animals lose weight by spring. What do you think happens to the fat that the animal lost during hibernation?

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12. A scientist made three groups A, B, and C, like the following:

- A. Sugar, meat, bread
- B. Water, limestone, sand
- C. Coal, gasoline, wood

a. What makes each group go together?

Group A:
Group B:
Group C:

b. Why would water go with limestone and sand rather than sugar and meat?

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c. Does it seem to you that groups A and C have anything in common?

Circle one: Yes / No

Please explain your answer.

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