Click here to watch the Carbon cycle video and answer the questions.

1. What causes the heat that we feel on a hot, sunny day?
    a. Decomposers
    b. Nitrogen cycle
    c. Too much oxygen in the air
    d. The greenhouse effect
2. Which organisms take in carbon dioxide?
    a. Humans
    b. Trees
    c. Deer
    d. Birds
3. How does carbon get cycled back into the Earth?
    a. Through decomposers
    b. Through the greenhouse effect
    c. Through burning fossil fuels
    d. Through photosynthesis
4. How does carbon dioxide cycle back an forth between plants and animals?
    a. Plants give off carbon dioxide and animals take in carbon dioxide.
    b. Animals breathe out carbon dioxide, and plants take in carbon dioxide.
    c. Plants and animals both breathe in carbon dioxide
    d. Plants and animals both breathe out carbon dioxide
5. What happens to carbon that has been in the soil for millions of years?
    a. It ceases to be carbon
    b. It makes the Earth warmer
    c. It turns into fossil fuels like oil and coal.
    d. It gets cycles back into plants through their roots.
6. What happens when gases, like carbon dioxide, get trapped in the atmosphere?
    a. The temperature of the planet rises.
    b. Plants produce more oxygen
    c. The amount of greenhouse gas decreases
    d. The number of decomposers increases.
7. Which of the following adds to the greenhouse effect and global warming?
    a. The conservation of national forests.
    b. Decreasing the amount of air pollution that is created
    c. The lessening of carbon emissions into the air.
    d. The burning of too much fossil fuel.

Click here to watch the video about the nitrogen cycle. Use the information in the video to help you answer the questions.

1. What is the nitrogen cycle?
    a. The process of chemically producing nitrogen to be used by plants and animals.
    b. The process of continually recycling nitrogen from living things to non-living things between Earth and its atmosphere.
    c. The process green plants use to make food.
    d. The process of recycling carbon from living to non-living things between Earth and its atmosphere.
2. How to humans get nitrogen?
    a. By breathing it in
    b. By drinking water
    c. By eating plants
    d. By producing it naturally in their digestive systems.
3. Which of the following comes first in the process of nitrification?
    a. Plants use nitrates to create protein
    b. Bacteria in the plant turn nitrogen gas into ammonia
    c. Bacteria turn nitrites into nitrates
    d. Nitrogen gas travels from the air to the soil.
4. How do nitrates turn back into nitrogen gas?
    a. Animals release nitrogen gas when they breathe out during respiration.
    b. Plants give off nitrogen gas after they have used all the nitrates they needed.
    c. Plants and animals die, and decomposers release nitrogen gas back into the air.
    d. Bacteria turns nitrates back into nitrogen gas, which gets released by the roots of plants and back into the air.
5. Which of the following is one of the key components of the nitrogen cycle?
    a. Carnivores
    b. Rain
    c. The Sun
    d. Bacteria
6. What do plants and animals use nitrates for?
    a. The produce sugars they need for energy.
    b. To create the protein they need to live and grow.
    c. To aid in photosynthesis and respiration
    d. To assist in digestion
7. How are people upsetting the nitrogen cycle?
    a. By building up too much nitrogen in the air

b. By creating too much bacteria in the soil.
c. By riding their bikes
d. By breathing in too much nitrogen

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