

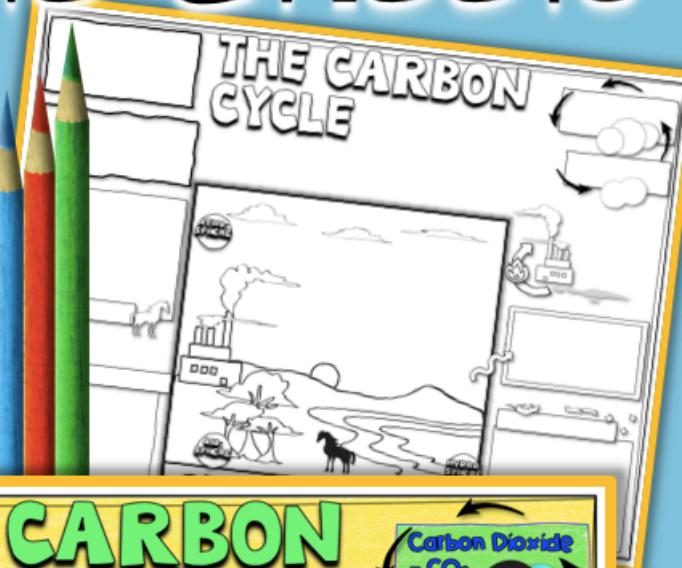
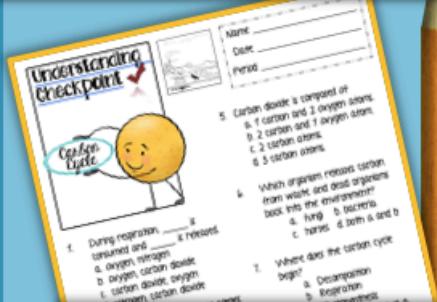
NGSS
Aligned

Black-Eyed Susan Science



Squiggle Sheets

The Carbon Cycle



Matter moves in cycles through the environment, getting used repeatedly.

SEVERAL IMPORTANT PROCESSES ARE PART OF THE CARBON CYCLE:

Most organisms get energy by combining O₂ from air with food. CO₂ is released back into the environment. They breathe in oxygen and release carbon dioxide.

RESPIRATION



Opposites

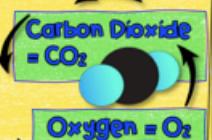
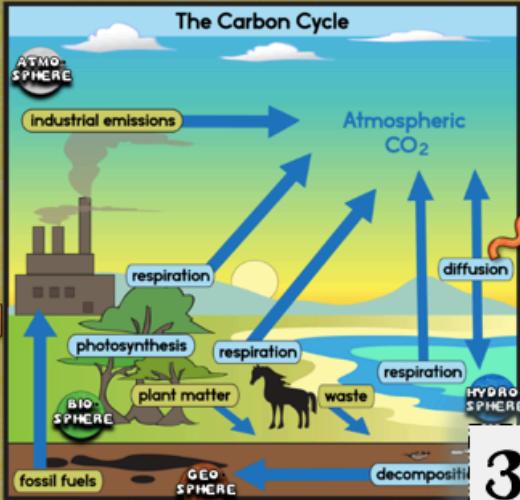
PHOTOSYNTHESIS

Plants, algae, and some bacteria take in CO₂ from the environment and use it to make food. O₂ is released back into the environment.

THE CARBON CYCLE

CARBON DIOXIDE AND OXYGEN ARE CONTINUALLY ABSORBED AND EMITTED BACK INTO THE ENVIRONMENT

-cycle by which carbon is exchanged among the spheres in the EARTH SYSTEM: biosphere, hydrosphere, atmosphere, & geosphere



BURNING FOSSIL FUELS AND TREES RELEASES CO₂ BACK INTO THE ENVIRONMENT

Gases containing carbon move between the ocean and atmosphere.

DECOMPOSITION

Fungi and some bacteria get energy by breaking down waste and remains of dead

3 Versions!

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Please contact me with any questions, concerns, or comments at
blackeyedsusanscience@gmail.com.

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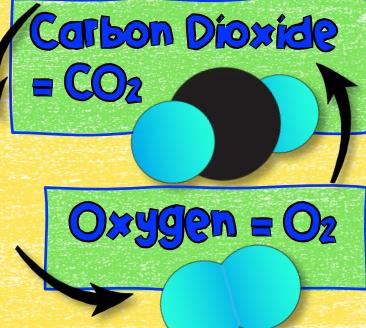
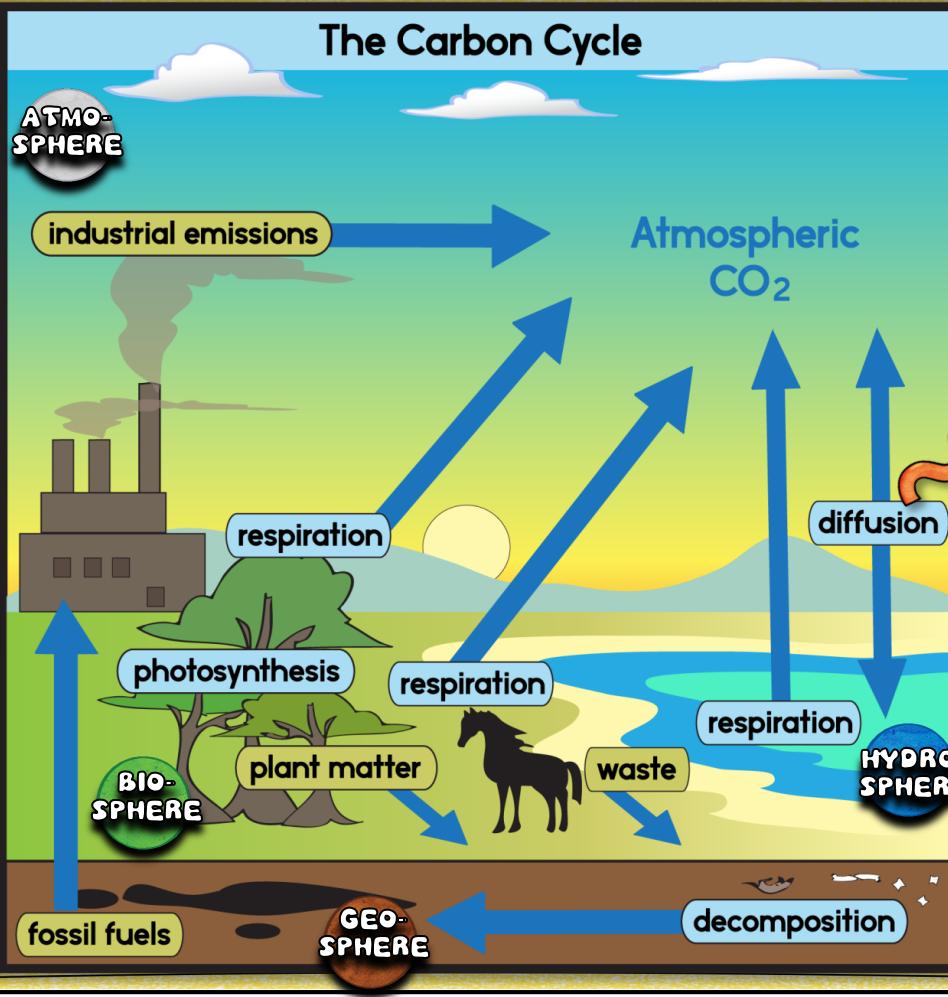
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Fungi and some bacteria get energy by breaking down waste and remains of dead organisms into smaller molecules. CO₂ is released.

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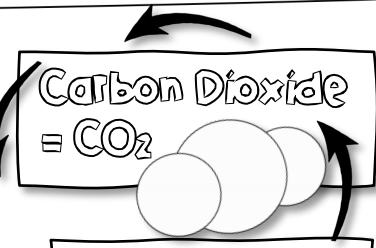
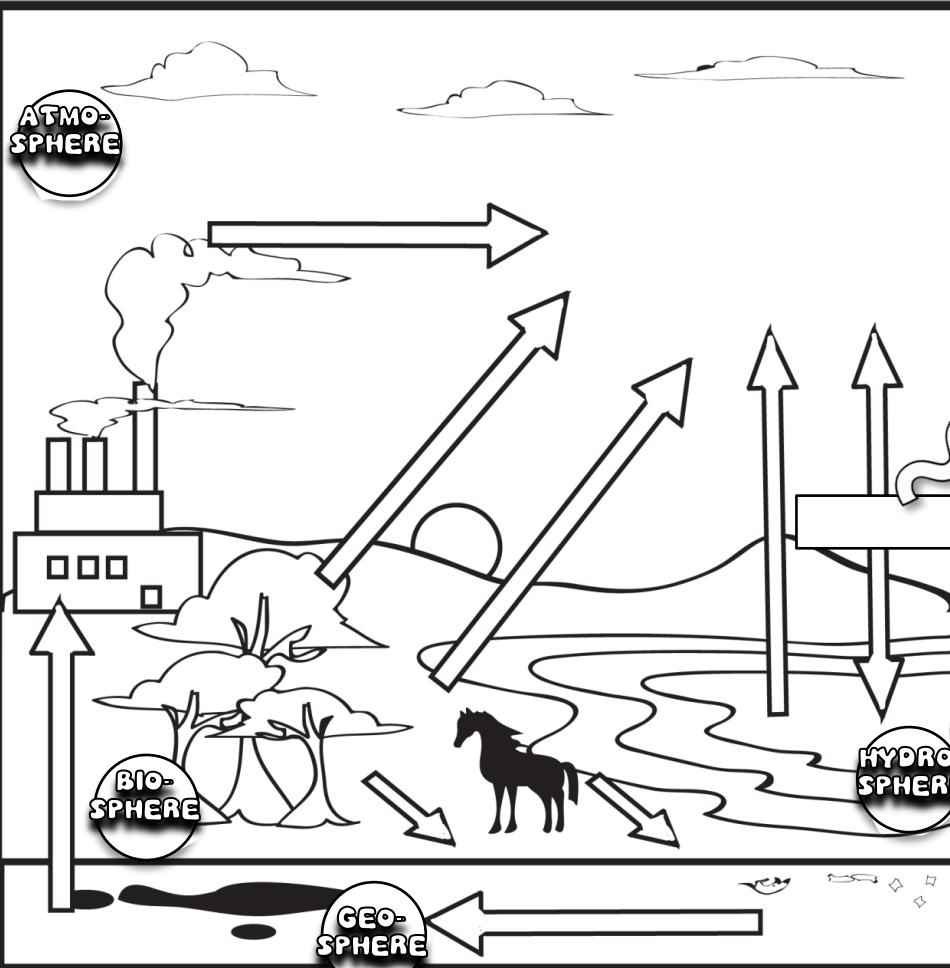
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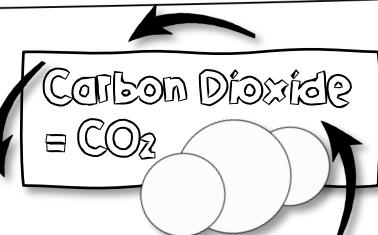
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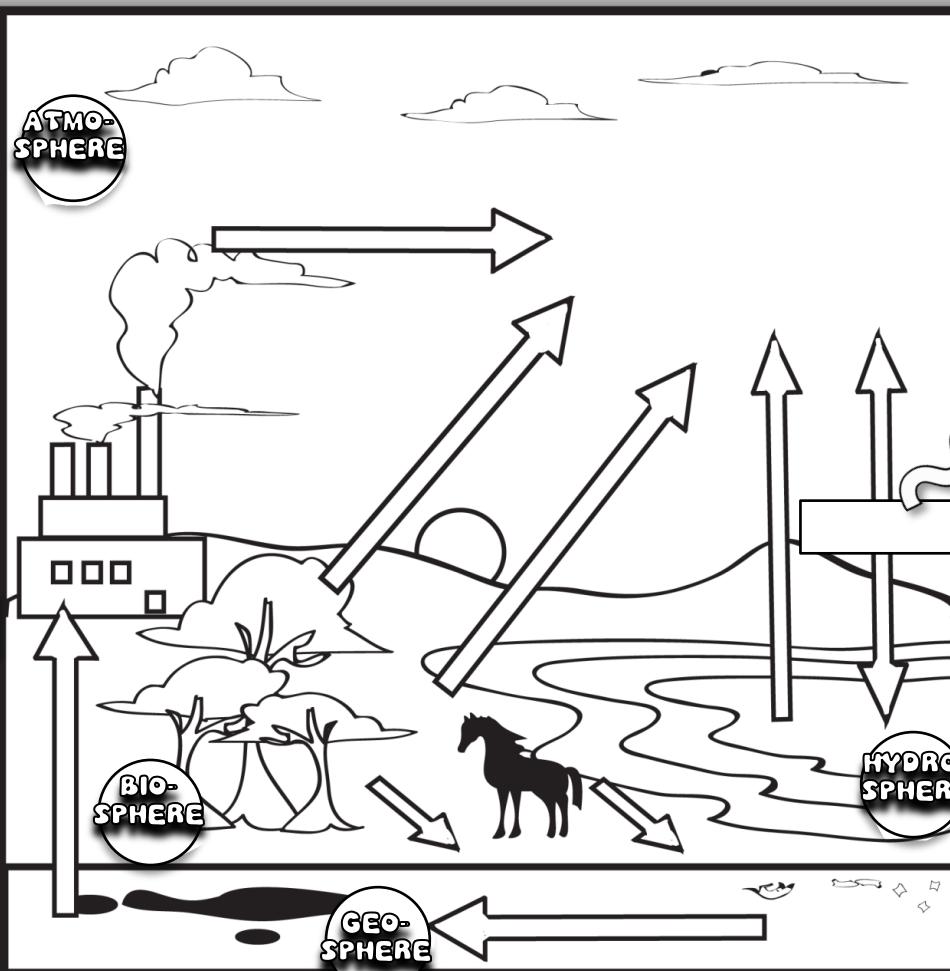
_____, algae, and some bacteria take in _____ from the environment and use it to _____ food. _____ is released back into the environment.

THE CARBON CYCLE

CARBON DIOXIDE AND OXYGEN ARE CONTINUALLY _____ AND _____ BACK INTO THE _____



-cycle by which carbon is _____ among the spheres in the EARTH SYSTEM: _____ sphere, _____ sphere, _____ sphere, & _____ sphere



FOSSIL FUELS AND TREES RELEASES _____ BACK INTO THE ENVIRONMENT

Gases containing carbon move between the ocean and atmosphere.

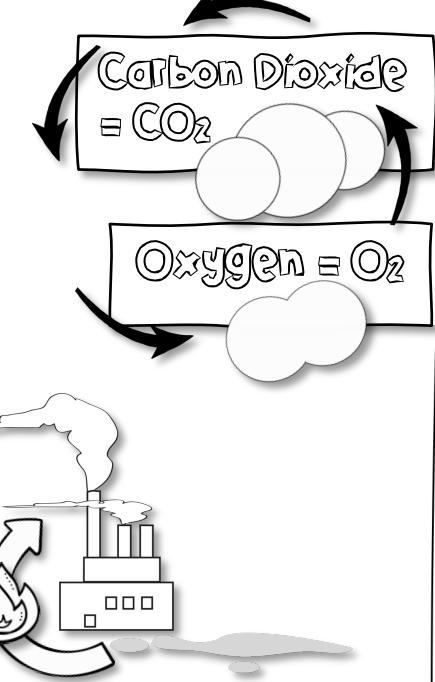
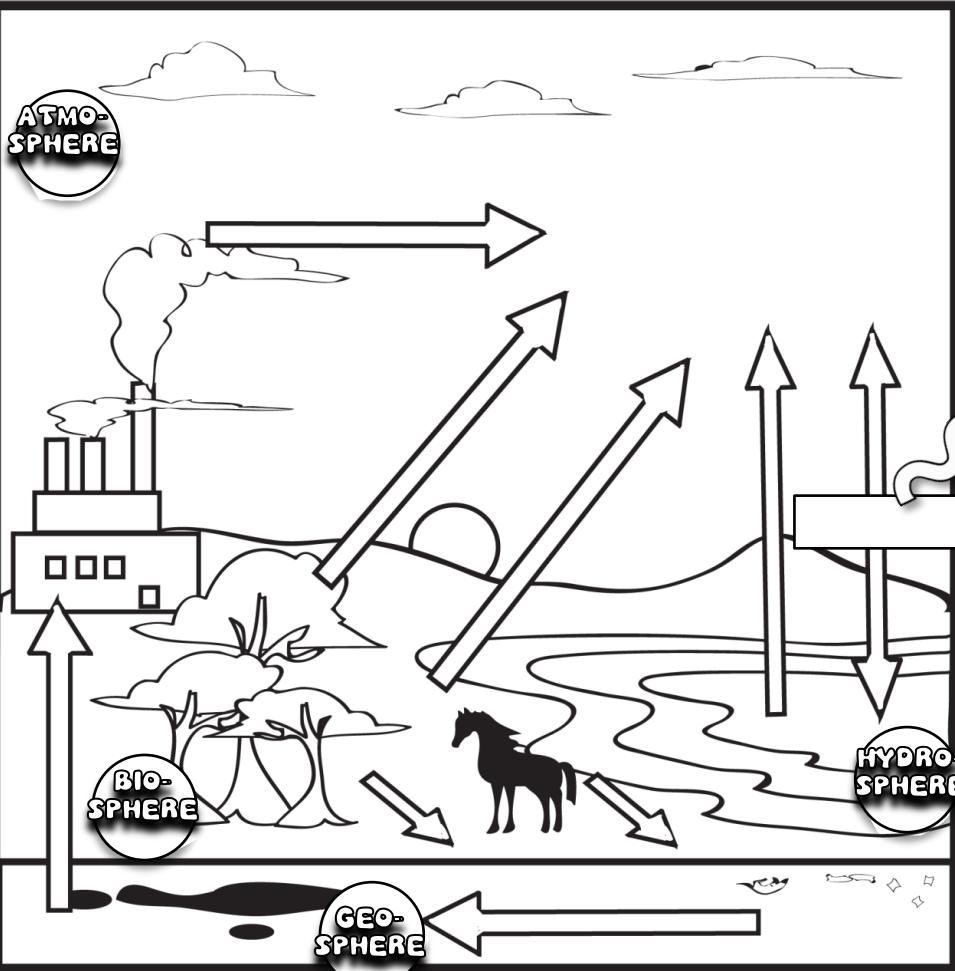
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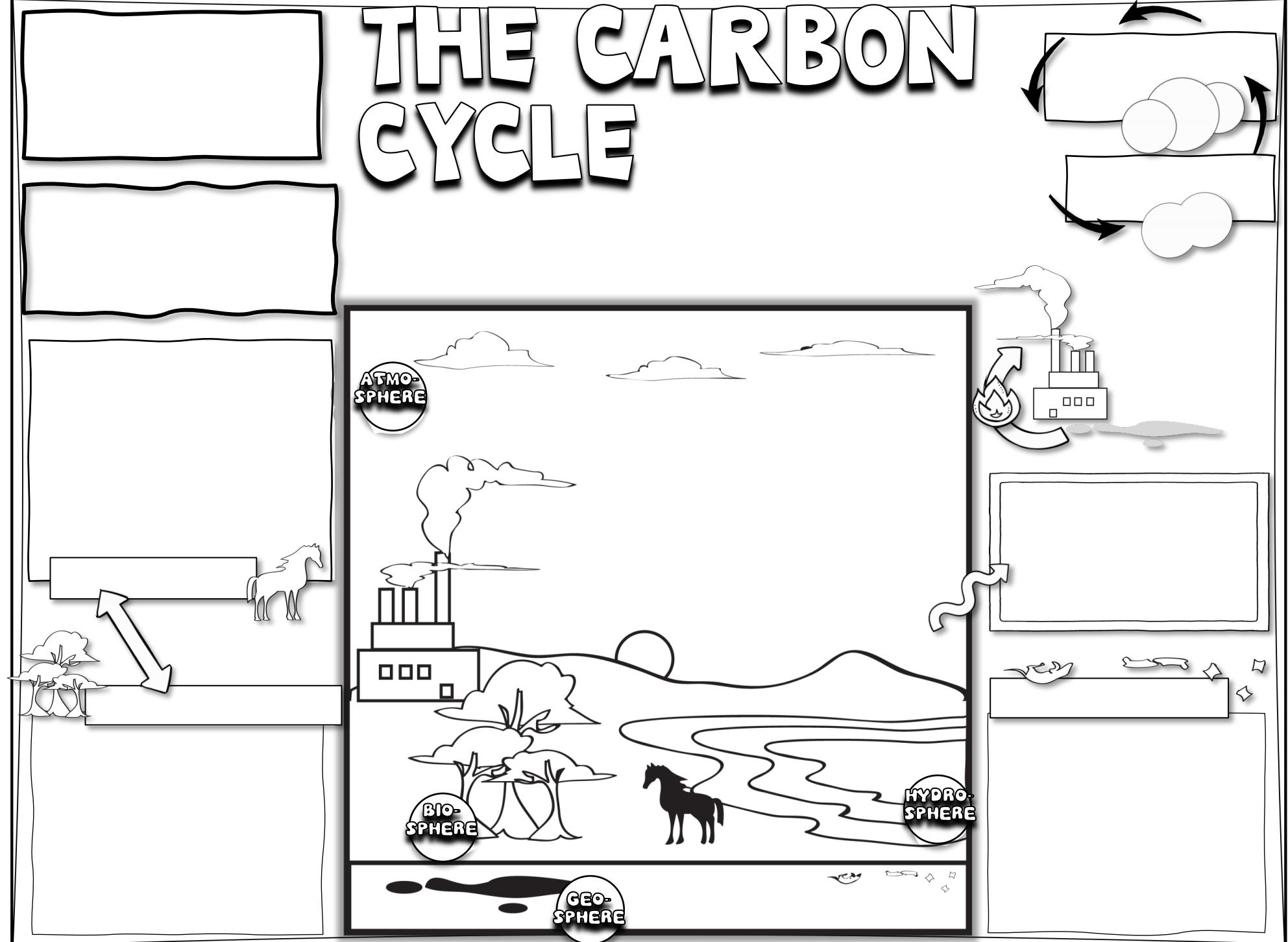
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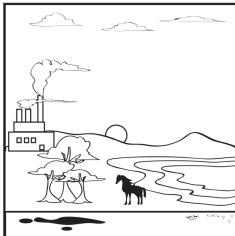
Gases containing carbon move between the ocean and atmosphere.

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THE CARBON CYCLE



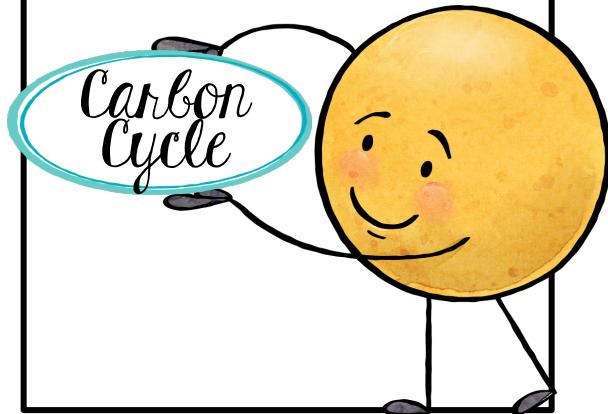
Understanding Checkpoint



Name _____

Date _____

Period _____



1. During respiration, _____ is consumed and _____ is released.
 - a. oxygen, nitrogen
 - b. oxygen, carbon dioxide
 - c. carbon dioxide, oxygen
 - d. nitrogen, carbon dioxide

2. The carbon that plants use comes from the
 - a. air.
 - b. soil.
 - c. water.
 - d. sun.

3. When people burn fossil fuels, carbon quickly enters the _____ as carbon dioxide.

a. biosphere	b. hydrosphere
c. atmosphere	d. geosphere

4. Which does not produce CO₂?
 - a. Photosynthesis
 - b. Decomposition
 - c. Respiration
 - d. Burning fossil fuels

5. Carbon dioxide is composed of
 - a. 1 carbon and 2 oxygen atoms.
 - b. 2 carbon and 1 oxygen atom.
 - c. 2 carbon atoms.
 - d. 3 carbon atoms.

6. Which organism releases carbon from waste and dead organisms back into the environment?
 - a. fungi
 - b. bacteria
 - c. horses
 - d. both a and b

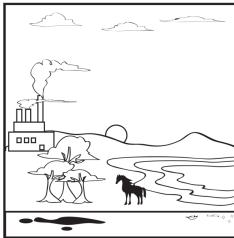
7. Where does the carbon cycle begin?
 - a. Decomposition
 - b. Respiration
 - c. Photosynthesis
 - d. Cycles do not have a beginning

8. T or F: All the carbon that exists is continually recycled in the carbon cycle.

9. T or F: Almost all living things contain carbon.

10. T or F: Carbon dioxide can dissolve in water in diffusion.

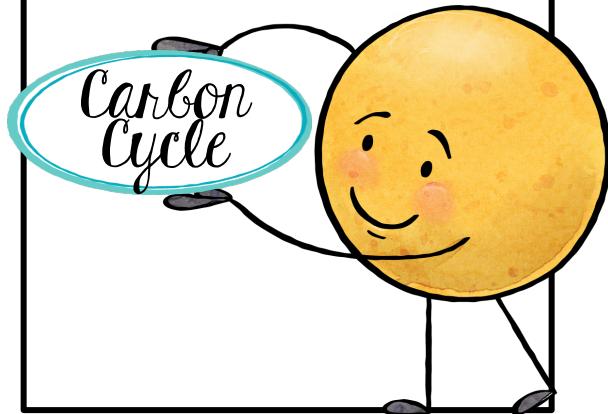
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