

Cycles Worksheet

Answer the following using the words in the text box.

Coal	Oil	Natural Gas	burning of fossil fuels	volcanoes	Photosynthesis
Respiration	ocean sugar	Greenhouse	decayed		

Carbon Cycle

1. Plants use CO₂ in the process of _____ to make _____ and oxygen.
2. Animals use oxygen in the process of _____ and make more CO₂.
3. The _____ is the main regulator of CO₂ in the atmosphere because CO₂ dissolves easily in it.
4. In the past, huge deposits of carbon were stored as dead plants and animals _____.
5. Today these deposits are burned as fossil fuels, which include _____, _____, and _____.
6. More CO₂ is released in the atmosphere today than in the past because of _____.
7. Another natural source for CO₂ is _____.
8. Too much CO₂ in the atmosphere may be responsible for the _____ effect.
9. Write the equations for photosynthesis and respiration.

Nitrogen Cycle

Atmosphere	78%	ammonia	proteins	denitrifying	
Nitrate	nitrogen-fixing	plants	animals	waste plants	

1. Our atmosphere is _____ nitrogen gas.
2. Animals and plants cannot directly use all the nitrogen found in our _____.
3. Only special bacteria can directly use nitrogen in our atmosphere and "fix" it so other organisms can benefit. These bacteria are called _____ - _____ bacteria.
4. Higher organisms use nitrogen to make their _____.
5. Animal waste decay by the action of bacteria which create _____ and

_____ products rich in nitrogen, and useful for plants to use again.

6. _____ bacteria in the soil can break down the ammonia into the gaseous form of nitrogen, which is not available for use by plants or animals.

7. In another part of the cycle, animals eat _____ containing nitrogen, which is again returned to the soil by animal _____ or decaying _____ and _____.