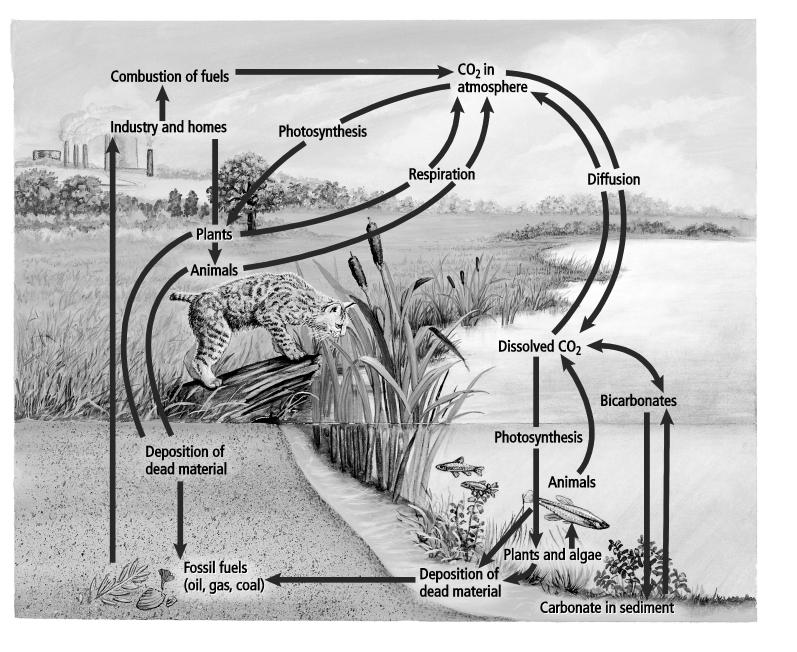
CARBON DIOXIDE CYCLE

Use with Chapter 24 Section 24.3



CARBON DIOXIDE CYCLE

- 1. What atmospheric gases are involved in the cycle shown? What are their Use with Chapter 24 chemical formulas? Section 24.3
- 2. What role do fossil fuels play in the cycle?
- 3. How might human use of fossil fuels affect this cycle in the future?

- 4. How are humans involved in this cycle?
- 5. How does the amount of oxygen in the air compare to the amount of carbon dioxide?
- 6. What role do decomposers play in this cycle?

Teaching Transparency 74 – Oxygen-Carbon Dioxide Cycle

- 1. oxygen, O_2 , and carbon dioxide, CO_2
- 2. Dead organisms can become fossil fuels. When fossil fuels are burned, oxygen from the atmosphere is used and carbon dioxide is given off.
- 3. Possible response: As humans continue to burn fossil fuels, they can greatly increase the amount of carbon dioxide in the atmosphere, which could increase Earth's surface temperature and further disrupt the cycle's balance by affecting organisms. If fossil fuels eventually get used up, their role in the cycle would end.
- 4. Humans burn fossil fuels, which release carbon dioxide into the atmosphere. As animals, humans take in oxygen and give off carbon dioxide during respiration.
- 5. There is much more oxygen in the air (about 21%) than carbon dioxide (a minute quantity).
- 6. Decomposers take in oxygen and give off carbon dioxide during respiration. They also break down the materials stored in dead organisms.