

Worksheet

1

The Carbon Cycle

Reteaching Skills

Use with Chapter 2, Section 2.2

1. What is the process by which plants convert carbon dioxide into energy-rich carbon compounds?

This process is called photosynthesis.

2. Explain what can happen over millions of years to the carbon compounds in organisms that die and decompose.

You get fossil fuels

3. What processes in the transparency release carbon dioxide into the atmosphere?

1) Respiration 2) Burning of fossil fuels 3) decomposition
4) CO₂ dissolved in water

4. Identify the two major reservoirs of carbon dioxide on Earth.

1) Ocean 2) Landfills 3) Atmosphere
4) Forests

5. What are the forms in which carbon is found in the oceans?

1) Calcium carbonate in rocks & shells
2) CO₂ dissolved into the water

6. How do plants and animals help to maintain a balance of carbon dioxide in the atmosphere?

Plants take the carbon dioxide out of the atmosphere to perform photosynthesis.

7. Atmospheric carbon dioxide produces a so-called "greenhouse effect" by trapping heat near Earth's surface. What human activities might tend to increase the greenhouse effect?

Driving (pollution)
Breathing
Cutting down trees
Creating trash