



Ecosystems

Name: _____

Date: _____

Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. During _____, plants take in carbon dioxide from the air and convert it into glucose.
2. When animals breathe, they release carbon _____ back into the atmosphere.
3. Burning fossil fuels adds extra _____ to the atmosphere, which contributes to climate change.
4. Nitrogen makes up about 78 _____ of Earth's atmosphere.
5. Special _____ in the soil convert nitrogen gas into forms that plants can absorb through their roots.
6. Plants need nitrogen to build _____, which are essential for growth and repair.
7. When organisms die, decomposers break down their bodies and return _____ to the soil.
8. The process of breaking down glucose for energy and releasing CO₂ is called _____.
9. Unlike energy, _____ is recycled and reused over and over in an ecosystem.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Photosynthesis



Bacteria convert nitrogen gas into usable forms for plants

Respiration



Organisms break down glucose and release carbon dioxide

Decomposition

Fungi and bacteria break down dead

Answer Key · Ecosystems · Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. During photosynthesis, plants take in carbon dioxide from the air and convert it into glucose.
2. When animals breathe, they release carbon dioxide back into the atmosphere.
3. Burning fossil fuels adds extra carbon to the atmosphere, which contributes to climate change.
4. Nitrogen makes up about 78 percent of Earth's atmosphere.
5. Special bacteria in the soil convert nitrogen gas into forms that plants can absorb through their roots.
6. Plants need nitrogen to build proteins, which are essential for growth and repair.
7. When organisms die, decomposers break down their bodies and return nitrogen to the soil.
8. The process of breaking down glucose for energy and releasing CO₂ is called respiration.
9. Unlike energy, matter is recycled and reused over and over in an ecosystem.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Photosynthesis

→ Plants absorb carbon dioxide and produce oxygen and glucose

Respiration

→ Organisms break down glucose and release carbon dioxide

Bacteria convert nitrogen gas into usable forms for plants

Organisms break down glucose and release