



# 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 CO<sub>2</sub> 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

## Answer Key · Ecosystems · Grade: Grade 5

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### Part A: Fill in the Blank

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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 CO<sub>2</sub> is called respiration.
9. Unlike energy, matter is recycled and reused over and over in an ecosystem.

### Part B: Matching

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

1. Match each item to its correct answer.

Photosynthesis	→ <u>Plants absorb carbon dioxide and produce oxygen and glucose</u>	Bacteria convert nitrogen gas into usable forms for plants
Respiration	→ <u>Organisms break down glucose and release carbon dioxide</u>	Organisms break down glucose