



# Energy in Ecosystems

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 5

## Part A: Fill in the Blank

Write the missing word or number on each line.

1. The \_\_\_\_\_ cycle moves carbon between air, plants, animals, and soil in Grade 5 ecosystems.
2. Evaporation, condensation, and precipitation are all parts of the \_\_\_\_\_ cycle.
3. Bacteria in soil change air \_\_\_\_\_ into a form plants can use.
4. When animals breathe out, they release carbon \_\_\_\_\_ into the air.
5. The total mass of living things in an ecosystem is called \_\_\_\_\_.
6. Energy flows in one \_\_\_\_\_ through ecosystems, from sun to producers to consumers.
7. Decomposers like fungi return \_\_\_\_\_ to the soil so new plants can grow.
8. Water returns to clouds when it changes from liquid to gas through \_\_\_\_\_.
9. The variety of life forms in an ecosystem is called \_\_\_\_\_.

## Part B: Matching

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

1. Match each item to its correct answer.

Carbon cycle	→ _____	CO <sub>2</sub> moves between air, plants, and animals
Water cycle	→ _____	Evaporation, condensation, and precipitation
Nitrogen cycle	→ _____	Bacteria turn N <sub>2</sub> gas into nitrates for plants
Energy flow	→ _____	One-way path from sun to producers to consumers

## Answer Key · Energy in 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. The carbon cycle moves carbon between air, plants, animals, and soil in Grade 5 ecosystems.
2. Evaporation, condensation, and precipitation are all parts of the water cycle.
3. Bacteria in soil change air nitrogen into a form plants can use.
4. When animals breathe out, they release carbon dioxide into the air.
5. The total mass of living things in an ecosystem is called biomass.
6. Energy flows in one direction through ecosystems, from sun to producers to consumers.
7. Decomposers like fungi return nutrients to the soil so new plants can grow.
8. Water returns to clouds when it changes from liquid to gas through evaporation.
9. The variety of life forms in an ecosystem is called biodiversity.

### 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.

Carbon cycle	→ <u>CO2 moves between air, plants, and animals</u>	CO2 moves between air, plants, and animals
Water cycle	→ <u>Evaporation, condensation, and precipitation</u>	Evaporation, condensation, and precipitation
Nitrogen cycle	→ <u>Bacteria turn N2 gas into nitrates for plants</u>	Bacteria turn N2 gas into nitrates for plants
Energy flow	→ <u>One-way path from sun to producers to consumers</u>	One-way path from sun to producers to consumers