

## Worksheet: Ecology (Grade 9)

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### Task 1: Matching

Match the environmental terms with their definitions.

1. **Recycling**
2. **Deforestation**
3. **Renewable energy**
4. **Carbon footprint**
5. **Biodiversity**

- a) The variety of plant and animal life in a particular habitat.
- b) The process of converting waste materials into reusable objects.
- c) The total amount of greenhouse gases produced by human activities.
- d) Energy that is collected from resources that are naturally replenished.
- e) The clearing or removal of forests for agricultural or industrial use.

### Answer Key:

1-b, 2-e, 3-d, 4-c, 5-a

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### Task 2: Multiple Choice

Choose the correct answer.

1. Which of the following is NOT a renewable energy source?
  - a) Solar power
  - b) Wind energy
  - c) Coal
  - d) Hydropower
2. What is the main cause of global warming?
  - a) Increased biodiversity
  - b) Greenhouse gas emissions
  - c) Recycling
  - d) Deforestation
3. Which action helps reduce plastic pollution?
  - a) Using single-use plastics
  - b) Recycling plastic waste
  - c) Burning plastic
  - d) Dumping plastic in oceans

**Answer Key:**

1-c, 2-b, 3-b

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**Task 3: Fill in the Blank**

Choose the correct word to complete the sentence.

1. The \_\_\_\_\_ of ecosystems is crucial for maintaining a healthy planet.
  - a) destruction
  - b) preservation
  - c) pollution
2. \_\_\_\_\_ is the process of planting trees in areas where forests have been cut down.
  - a) Deforestation
  - b) Reforestation
  - c) Pollution
3. Using public transport instead of cars helps reduce your \_\_\_\_\_.
  - a) carbon footprint
  - b) biodiversity
  - c) recycling

**Answer Key:**

1-b, 2-b, 3-a

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**Task 4: Short Answer**

Answer the question in one or two sentences.

1. Why is it important to protect endangered species?  
**Sample Answer:** Protecting endangered species helps maintain biodiversity and ensures the balance of ecosystems.
  2. What are two ways to reduce waste at home?  
**Sample Answer:** Recycling and composting are effective ways to reduce waste at home.
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**Task 5: Open Question**

Write a short paragraph (4-5 sentences) answering the following question.

**Question:** How can individuals contribute to solving environmental problems?

**Sample Answer:** Individuals can contribute to solving environmental problems by adopting sustainable habits such as reducing energy consumption, recycling, and using eco-friendly

products. Additionally, supporting environmental organizations and spreading awareness about ecological issues can make a significant impact. Small changes in daily life, like using public transport or planting trees, can collectively lead to a healthier planet.

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### **Task 6: Drag and Drop**

Drag the words into the correct categories: **Renewable Resources** or **Non-Renewable Resources**.

#### **Words:**

- Solar power
- Coal
- Wind energy
- Natural gas
- Hydropower
- Oil

#### **Categories:**

**Renewable Resources:** Solar power, Wind energy, Hydropower

**Non-Renewable Resources:** Coal, Natural gas, Oil

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This worksheet is designed to engage students with a variety of question types while reinforcing key concepts related to ecology.