

Worksheet: Ecology (Grade 9)

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

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

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

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.

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

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