



Introduction

Welcome to the world of ecosystems! In this question sheet, we will explore the impact of human activities on the environment and learn about ways to reduce our footprint. Read the following passage and answer the questions that follow:

Human activities such as deforestation, pollution, and climate change can have a significant impact on ecosystems. These activities can disrupt the natural balance of ecosystems, leading to loss of biodiversity and ecosystem degradation.

1. What are some human activities that can impact ecosystems?

2. Why is it important to protect ecosystems?

Deforestation

Deforestation is the clearance of forests, usually as a result of human activities like agriculture, urbanization, or logging. This can lead to habitat loss and fragmentation, resulting in population decline and even extinction.

1. What is deforestation, and how does it affect ecosystems?

2. What are some consequences of deforestation on biodiversity?

3. How can we reduce deforestation?

Pollution

Pollution is the introduction of harmful substances or products into the environment. This can harm ecosystems and human health.

1. What is pollution, and how does it affect ecosystems?

2. What are some types of pollution, and how can we reduce them?

3. How can pollution affect human health?

Climate Change

Climate change is the warming of the planet due to an increase in average global temperature. This can lead to changes in weather patterns, rising sea levels, and more frequent natural disasters.

1. What is climate change, and how does it affect ecosystems?

2. What are some causes of climate change, and how can we reduce them?

3. How can climate change affect human societies?

Biodiversity and Ecosystem Services

Biodiversity refers to the variety of different species that exist in an ecosystem. Ecosystem services are the benefits that humans receive from ecosystems, such as clean air and water, food, and shelter.

1. What is biodiversity, and why is it important?

2. What are some ecosystem services, and how do they benefit humans?

3. How can we protect biodiversity and ecosystem services?

Sustainable Practices

Sustainable practices are ways of living that reduce our impact on the environment. This can include reducing energy consumption, using renewable energy sources, and conserving water.

1. What are some sustainable practices that can reduce our impact on the environment?

2. How can we reduce energy consumption in our daily lives?

3. Why is it important to conserve water?

Case Study - Amazon Rainforest

The Amazon rainforest is one of the most biodiverse ecosystems on the planet. However, it is facing threats from deforestation and climate change.

1. What are some threats to the Amazon rainforest, and how can we address them?

2. What are some benefits of preserving the Amazon rainforest?

3. How can we support conservation efforts in the Amazon rainforest?

Creative Activity

Create a poster or drawing that illustrates the impact of human activities on ecosystems. Include at least three examples of human activities and their effects on the environment.

[Space for creative work]

Reflection

Individual Reflection:

1. What did you learn about human impacts on ecosystems?

2. How can you apply what you learned to your daily life?

3. What are some challenges or obstacles that might prevent you from reducing your impact on the environment?

Conclusion

In conclusion, human activities can have a significant impact on ecosystems. However, by learning about these impacts and taking action to reduce them, we can protect the environment and preserve biodiversity.

1. What are some key takeaways from this question sheet?

2. How can you share what you learned with others?

3. What are some next steps that you can take to reduce your impact on the environment?