



Introduction to Ecosystems (Page 1)

What is an ecosystem? Look at the picture below and discuss with your friends:



Ecosystem Picture

Activity: Draw a picture of your favorite ecosystem

Biotic and Abiotic Factors (Page 2)

What are biotic factors? Examples: plants, animals, microorganisms

What are abiotic factors? Examples: water, sunlight, soil

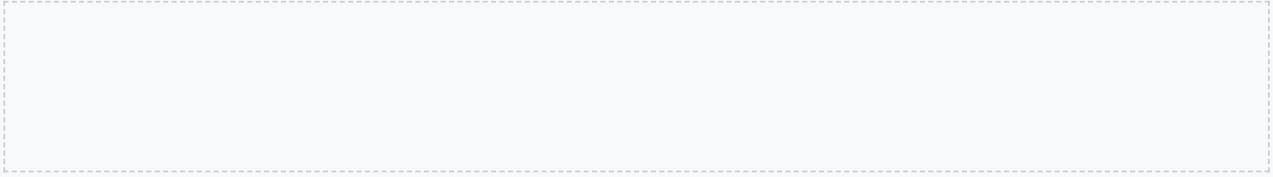
Match the biotic and abiotic factors

Biotic Factors	Abiotic Factors
Plants	Water
Animals	Sunlight
Microorganisms	Soil

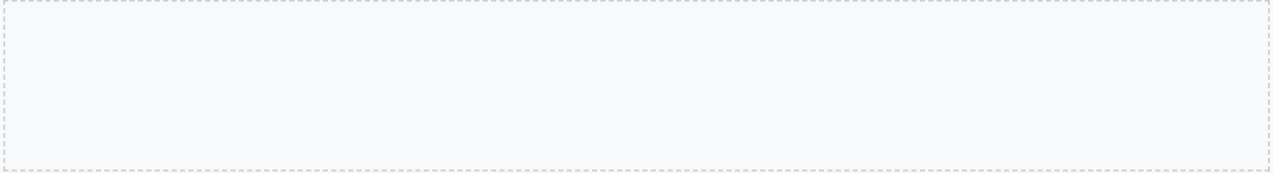
Adaptation and Conservation (Page 3)

What is adaptation? Examples: polar bear's white fur, camel's hump

Why is conservation important? Discuss with your friends:



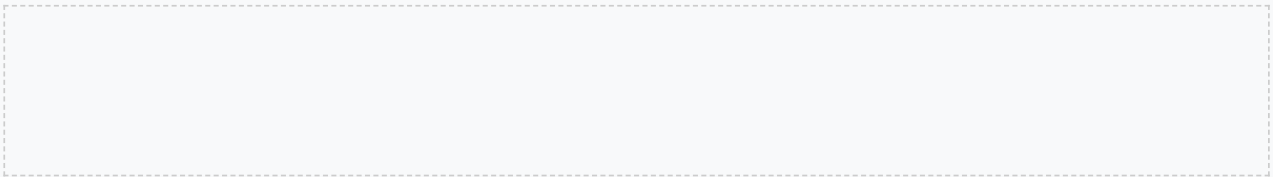
Activity: Draw a picture of an animal that has adapted to its environment



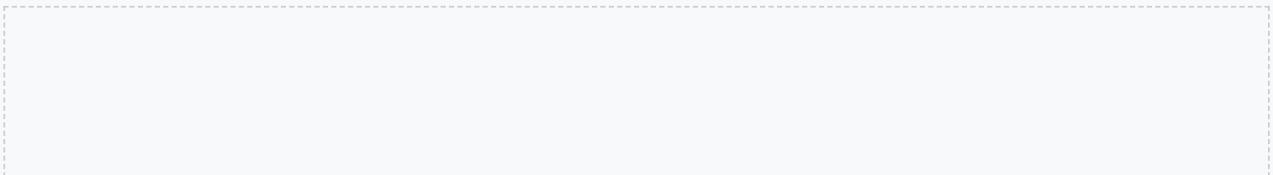
Human Impact on the Environment (Page 4)

How do humans impact the environment? Examples: pollution, deforestation, climate change

Discuss with your friends: How can we reduce our impact on the environment?



Activity: Create a poster about reducing waste



Fun Activities and Games (Page 5)

Ecosystem sorting game

Adaptation charades

Conservation role-play

Ecosystem model building

Human impact discussion

Activity: Play the ecosystem sorting game

Conclusion and Reflection (Page 6)

Review of key concepts

Reflection questions:

1. What did you learn about ecosystems?
2. How can you apply what you learned to your daily life?

Activity: Write a reflective essay about what you learned

Assessment and Evaluation (Page 7)

Quiz: What is an ecosystem?

Quiz: What are biotic and abiotic factors?

Quiz: Why is conservation important?

Activity: Complete a quiz to assess your understanding

Extension Activities (Page 8)

Ecosystem diorama

Environmental interview

Ecosystem model

Activity: Create an ecosystem diorama

Parent Engagement (Page 9)

Parent-child ecosystem project

Environmental workshop

Classroom volunteer

Activity: Work with your parent on an ecosystem project

Safety Considerations (Page 10)

Outdoor activities: supervision and risk assessment

Indoor activities: handling plants and small animals

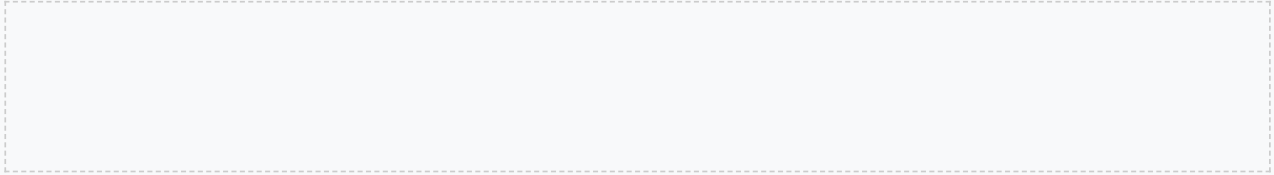
Establishing clear rules and guidelines

Activity: Discuss safety considerations with your teacher

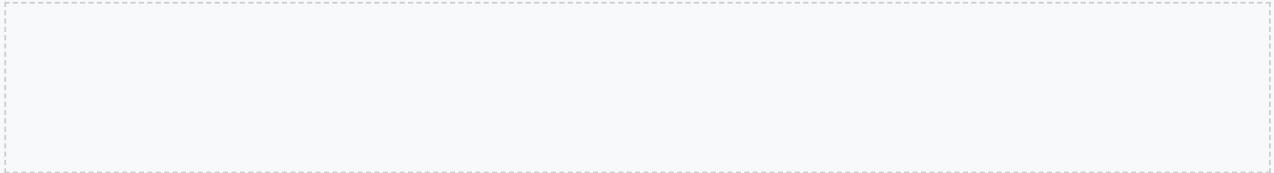
Ecosystem Services (Page 11)

What are ecosystem services? Examples: pollination, air and water filtration, soil formation

Discuss with your friends: How do humans benefit from ecosystem services?



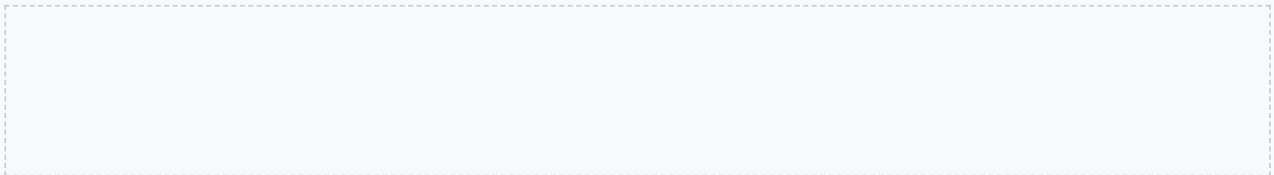
Activity: Create a diagram showing the different ecosystem services



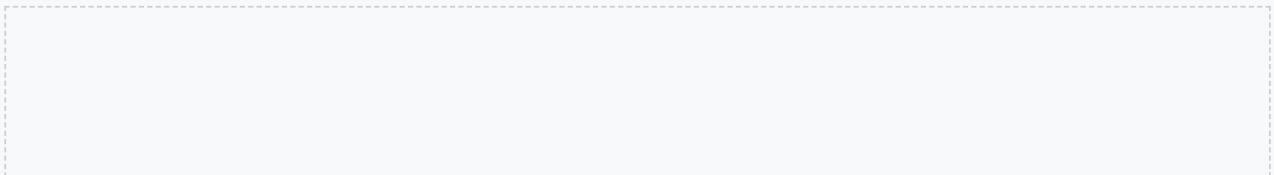
Human Impact on Ecosystems (Page 12)

How do humans impact ecosystems? Examples: deforestation, pollution, climate change

Discuss with your friends: What can we do to reduce our impact on ecosystems?



Activity: Write a letter to a local leader about reducing human impact on ecosystems



Conservation Efforts (Page 13)

What is conservation? Examples: protecting endangered species, preserving habitats

Discuss with your friends: Why is conservation important?

Activity: Research and present on a conservation effort

Sustainability (Page 14)

What is sustainability? Examples: reducing waste, using renewable energy

Discuss with your friends: How can we live more sustainably?

Activity: Create a plan for reducing waste in your school or community

Ecosystems and Climate Change (Page 15)

How do ecosystems affect climate change? Examples: carbon sequestration, ocean currents

Discuss with your friends: What can we do to reduce our carbon footprint?

Activity: Calculate your carbon footprint and create a plan to reduce it

Ecosystems and Human Health (Page 16)

How do ecosystems affect human health? Examples: air and water quality, disease transmission

Discuss with your friends: What can we do to protect human health through ecosystem conservation?

Activity: Research and present on a disease that is affected by ecosystem health

Ecosystems and Economics (Page 17)

How do ecosystems affect economies? Examples: tourism, fishing industries

Discuss with your friends: What can we do to balance economic development with ecosystem conservation?

Activity: Create a plan for sustainable economic development in your community

Ecosystems and Culture (Page 18)

How do ecosystems affect cultures? Examples: traditional practices, spiritual beliefs


Discuss with your friends: What can we do to respect and preserve cultural heritage through ecosystem conservation?

Activity: Research and present on a cultural practice that is connected to ecosystem health



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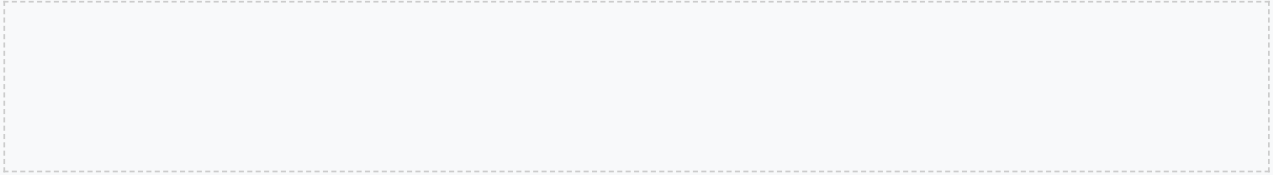
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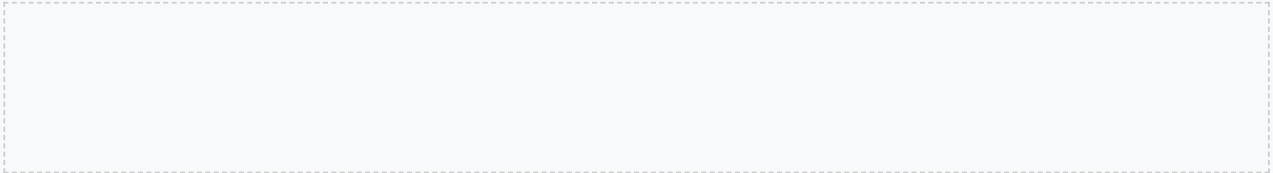
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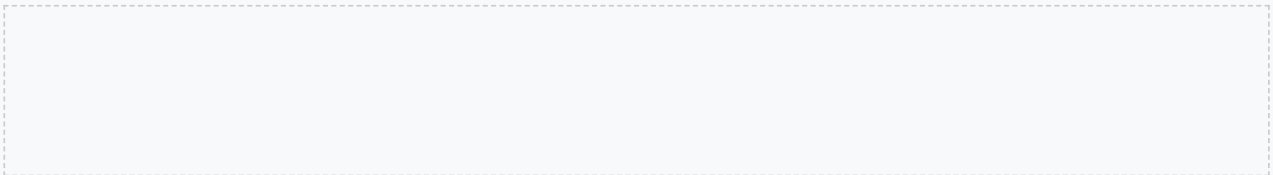
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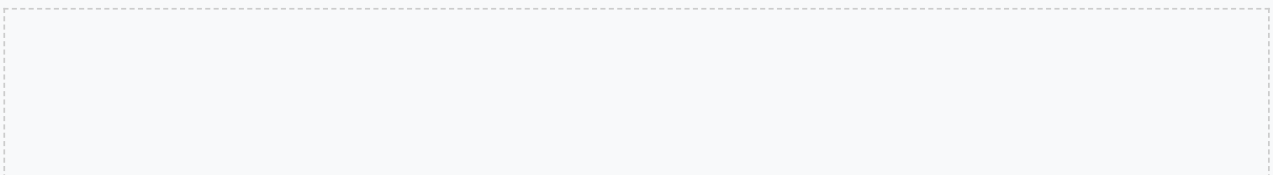
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