Classroom Activity: Understanding Our Environment

Introduction to Ecosyste	ms (10 minutes)		
In pairs, discuss and write yo	our thoughts on the fo	ollowing questions:	
 What is an ecosystem What are the compone Why are ecosystems in 	ents of an ecosyster	n?	
Exploring Local Ecosyste	ems (20 minutes)		
Group Task:			
-		bserving the types of pla	ants and animals that live there,
Location	Plants	Animals	Interactions
Understanding Biodivers	ity (25 minutes)		
Based on your exploration, w	ork with your group t	to answer:	
1. What types of plants a 2. How do these organis 3. What is the important	nd animals did you lassroom Activity Sheet: U ms interact with eac ê ⁰ 8f BlodiVersity in ^l la	observe in the ecosyster inderstanding our Environment h other and their enviror in ecosystem?	m? nment?

	Human Impact on Ecosystems (20 minutes)
Based on your discussion, work with your group to propose solutions for sustainability, including: 1. Reducing, reusing, and recycling 2. Conservation and restoration of ecosystems	In groups of 3-4, discuss and write about the human impact on ecosystems, including: • Deforestation and habitat destruction • Pollution and climate change
Based on your discussion, work with your group to propose solutions for sustainability, including: 1. Reducing, reusing, and recycling 2. Conservation and restoration of ecosystems	
Reducing, reusing, and recycling Conservation and restoration of ecosystems	Solutions for Sustainability (25 minutes)
	2. Conservation and restoration of ecosystems

Creative Response (15 minutes)
Choose ONE of the following activities:
 Draw a diagram showing the relationship between human activity and environmental changes Write a short story from the perspective of a local plant or animal Create a poster promoting environmental awareness
[Space for creative work]
Reflection & Conclusion (10 minutes)
Individual Reflection: 1. What was the most surprising thing you learned today?
2. How will this learning change your actions in the future?
3. What questions do goustill have about environmental limipactent
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Ecosystem Services (20 minutes)
 In pairs, discuss and write about the ecosystem services provided by different ecosystems, including: Provisioning services (food, water, timber, etc.) Regulating services (climate regulation, water purification, etc.) Supporting services (soil formation, nutrient cycling, etc.) Cultural services (recreation, tourism, etc.)
Human Well-being and Ecosystems (25 minutes)
Group Task: In groups of 3-4, explore the relationship between human well-being and ecosystems, including: 1. The impact of ecosystem degradation on human health 2. The role of ecosystems in providing livelihoods and economic benefits 3. The importance of ecosystems for mental health and well-being

Sustainable Development Goals (20 minutes)
In pairs, discuss and write about the Sustainable Development Goals (SDGs) related to ecosystems, including:
 SDG 13: Climate Action SDG 14: Life Below Water SDG 15: Life on Land
Case Study: Sustainable Development (25 minutes)
Case Study: Costa Rica's Conservation Efforts
Costa Rica has made significant efforts to conserve its ecosystems, including the establishment of national parks and protected areas. Discuss the following questions:
 What are the benefits of conservation efforts for ecosystems and human well-being? What are the challenges faced by Costa Rica in its conservation efforts? How can other countries learn from Costa Rica's experiences?

Ecosystem-Based Adaptation (20 minutes)
 In pairs, discuss and write about ecosystem-based adaptation strategies, including: Restoration of ecosystems to enhance resilience Conservation of ecosystems to maintain ecosystem services Sustainable management of ecosystems to support human well-being
Group Discussion: Ecosystem-Based Adaptation (25 minutes)
Group Task:
In groups of 3-4, discuss the following questions:
What are the benefits and challenges of ecosystem-based adaptation strategies? How can ecosystem-based adaptation strategies be integrated into national and local planning? What are the potential barriers to implementing ecosystem-based adaptation strategies?

Ecosystem Services and Human Well-being (20 minutes)
In pairs, discuss and write about the relationship between ecosystem services and human well-being, including:
 The impact of ecosystem degradation on human health and well-being The role of ecosystems in providing livelihoods and economic benefits The importance of ecosystems for mental health and well-being
Case Study: Ecosystem Services and Human Well-being (25 minutes)
Case Study: The Impact of Deforestation on Local Communities
Deforestation has significant impacts on local communities, including loss of livelihoods and decreased access to ecosystem services. Discuss the following questions:
 What are the benefits and challenges of preserving ecosystems for human well-being? How can local communities be involved in ecosystem conservation and management? What are the potential solutions to address the impacts of deforestation on local communities?

 In pairs, discuss and write about ecosystem-based management strategies, including: Integrated management of ecosystems to maintain ecosystem services Sustainable use of ecosystem resources to support human well-being Conservation of ecosystems to maintain biodiversity
Group Discussion: Ecosystem-Based Management (25 minutes)
Group Task: In groups of 3-4, discuss the following questions:
 What are the benefits and challenges of ecosystem-based management strategies? How can ecosystem-based management strategies be integrated into national and local planning? What are the potential barriers to implementing ecosystem-based management strategies?

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Group Task: In groups of 3-4, discuss and write about the human impact on ecosystems, including: • Deforestation and habitat destruction • Pollution and climate change • Overfishing and overhunting Solutions for Sustainability (25 minutes) Based on your discussion, work with your group to propose solutions for sustainability, including: 1. Reducing, reusing, and recycling 2. Conservation and restoration of ecosystems 3. Renewable energy sources and reducing carbon footprint	Human Impact on Ecosystems (20 minutes)
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Reducing, reusing, and recycling Conservation and restoration of ecosystems	Solutions for Sustainability (25 minutes)
	Reducing, reusing, and recycling Conservation and restoration of ecosystems

1. Draw a diagram showing the relationship between human activity and environmental changes 2. Write a short story from the perspective of a local plant or animal 3. Create a poster promoting environmental awareness [Space for creative work]
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