

Biodiversity Detectives: Student Activity Workbook

Detective Information

Complete your detective profile to begin your biodiversity investigation!

Detective Name: _____

Date: _____

Badge Number: _____

Class:

Mission Brief:

As a Biodiversity Detective, your mission is to:

- · Investigate different species in your local environment
- Document evidence of biodiversity
- Analyze connections between living things
- Propose solutions for protecting nature

Activity 1: Mystery Box Observations (30 minutes)

Your first mission is to investigate natural objects using your detective skills!

Mystery Item 1	Mystery Item 2
Drawing Space	Drawing Space
Description:	Description:
Color:	Color:
Texture:	Texture:
Origin Hypothesis:	Origin Hypothesis:

Detective Analysis

Compare and Contrast:

	How are the items similar?
	How are they different?
	What evidence suggests these items came from living things?
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Activity 2: Ecosystem Connections Investigation

Study how different organisms in an ecosystem depend on each other.

Part A: Connection Web

Draw lines between organisms that have a relationship. Use different colored lines for different types of relationships:

- Red = Predator/Prey
- Green = Food Source
- Blue = Shelter
- Purple = Pollination

Butterfly		Flower		Bird
Tree		Bee	C	aterpillar
B: Detective's Ana	alysis			
B: Detective's Ana . Describe the most		ction you found:		
	interesting connect			
. Describe the most	interesting connect	was removed?		
. Describe the most . What would happe	interesting connect	was removed?		

Location: Time: Plants Observed			Weather:			
			Temperature:			
			Animals Observed			
Type Trees Flowers			Type Birds Insects		Behavior	
Grass/Moss			Other			
		itat investigation are				
		_			Remember to include. Plant locations Animal activity areas Water sources Natural shelters	

eate an action plan to protec	t and enhance biodiver	sity in your study area.	
urrent Challenges			
Challenge 1:		Challenge 2:	
Description:		Description:	
Impact on biodiversity:		Impact on biodiversity:	_
Dution Proposals Action	Resources Ne	eded Timeline	Expected Impact
nmunity Engagement Strat	egy		
rget Audiences:			
	Теас	hers	Parents
Students		ities.	Activities:
Students Activities:	Activ		

	our biodiversity findir	ngs.		
ecies Abundance	Chart			
Plants	Insects	Birds	Mammals	Other
atistical Analysis				
Category	Total Co	ount	Percentage	Trend
ects				
ds				
clusions and Rec	commendations			
	commendations			
y Findings:				
2	commendations			
y Findings: 1 2 3				
y Findings: 1 2 3				
y Findings: 1 2 3 commendations f	for Biodiversity Enh			
y Findings: 1 2 3	for Biodiversity Enh			
y Findings: 1 2 3 commendations f	for Biodiversity Enh			
y Findings: 1 2 3 commendations f Short-term Action	for Biodiversity Enh			

Final Detective Report	
Complete your investigation findings and recommendations.	
Investigation Summary	
Key Discoveries:	
1. Most important thing I learned about biodiversity:	
2. Biggest surprise during my investigation:	
3. How ecosystems work together:	
CERTIFIED Biodiversity Detective	•
"As a Biodiversity Detective, I pledge to continue protecting and learning about nature in my local environment."	
Detective Signature:	
Date:	