

# **Biodiversity Guardians: Environmental Science Activity Workbook**

Student Information				
Please fill in your deta	ails:			
Name:	Date:			
Part 1: Nature D	etective Investigation			
As a nature detective the See-Think-Wonde	, carefully observe your surroundings for 10 minutes and record your findings using er strategy.			
l See (Observable	Facts)			
3				
4				
I Think (Interpreta	ations)			
1				
4				
l Wonder (Questi	ons)			
4				
2				

**Biodiversity Observation Sketches** 

Living Thing 1	Living Thing 2	Living Thing 3
Labels:	Labels:	Labels:

# **Part 2: Ecosystem Connections** Understanding how different organisms connect and depend on each other is crucial for maintaining biodiversity. 1. Ecosystem Role Match Draw lines to connect each organism with its primary role in the ecosystem: Organisms: Roles: M Bee \_\_\_\_ Decomposes dead matter □ Earthworm \_\_\_\_ Pollinates flowers **#** Bird \_\_\_\_ Spreads seeds Tree Provides shelter 2. Food Web Construction Draw arrows between the organisms to show who eats whom. Use different colored arrows if possible. [Draw your food web here using these organisms:]

#### 3. Biodiversity Quiz

#### Circle the best answer for each question:

- 1. What is biodiversity?
  - a) The variety of life in an area
  - b) Only the plants in an ecosystem
  - c) The number of animals in a zoo
  - d) The weather in different places
- 2. Why is biodiversity important?

<ul><li>c) It helps clean air and</li><li>d) All of the above</li></ul>	watcı	
art 3: Habitat Heroes	s Project	
esign and plan a wildlife-fri	endly space that supports local biodiversity.	
tep 1: Site Analysis		
urrent Conditions:		
List existing plants, animals	s, and features: 12.	
	3	
undurantel Fratana		
nvironmental Factors: Sunlight:	□ Full □ Partial □ Shade	
Vater Source:	□ Natural □ Irrigation □ None	
tep 2: Habitat Design	□ Sandy □ Clay □ Loam	
tep 2. павітат besigii		
	Draw your habitat design here. Include:	
<ul> <li>Plant locations</li> </ul>		
Water features		i
<ul><li>Shelter areas</li><li>Feeding stations</li></ul>		
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a) It keeps ecosystems healthyb) It provides food and medicine

## Part 4: Biodiversity Action Plan

## Implementation Strategy

Action Item	Timeline	Resources Needed	Responsible Person

## **Monitoring and Evaluation**

#### **Weekly Observations**

Date	Species Seen	Activity

ocal Species Investigation	
hoose one native species to resear	rch:
pecies Name:	Sketch the Species:
abitat Requirements:	
iet:	
	sies:
Threats and Conservation  Identify threats to your chosen spec	
dentify threats to your chosen spec	
lentify threats to your chosen spec	
lentify threats to your chosen spec	
lentify threats to your chosen spec	
dentify threats to your chosen spec	

	reness Campa	ign		
rget Audience:				
Message:				
ıpaign Materials	Design			
	Des	ign your campaign postel	r here	
on Plan				

Complete these final thoughts about what you've lea	arned today:	
ly Biodiversity Learning Journey		
1. The most interesting thing I learned today w	as:	
2. One way I can help protect biodiversity is:		
3. Questions I still have about biodiversity:		
Activity Completion		
Teacher's Signature:	Date:	