

Young Biodiversity Researchers Activity Sheet

Researcher Identity Card	
Complete your research identity of	details before starting your investigation:
Researcher Name:	
Team Code:	
Research Area:	
Date:	

Initial Assessment

Circle the correct answer for each question:

1. Biodiversity refers to:

- o Only animals
- o Only plants
- All living organisms
- o Only endangered species

2. The Shannon-Wiener index is used to measure:

- Population size
- Species diversity
- o Habitat area
- Animal migration

3. Which factor does NOT directly affect biodiversity?

- o Temperature
- ∘ Soil pH
- Radio waves
- Humidity

Field Research Activities

Area Mapping Exercise

Draw a rough map of your study area in the grid below. Include:

- Sampling points (mark with X)
- Major landscape features
- Compass directions
- Scale approximation

```
${Array(20).fill().map(() `).join(")}
```

Map Legend

Biodiversity Recording Sheet

Record all species observed in your study area:

\${Array(8).fill().map(() => ` `).join(")}

Species	Count	Location	Notes

Environmental Factors Analysis

Record and analyze environmental conditions at each sampling point:

\${Array(5).fill().map((_, i) => ` `).join(")}

Sampling Point	Temperature (°C)	Humidity (%)	Soil pH	Light (lux)
Point \${i + 1}				

Analysis Questions:

- 1. What patterns do you notice in the environmental data?
- 2. How might these factors affect biodiversity in your study area?
- 3. Which environmental factor seems to have the strongest influence on species distribution?

Species Interaction Web	
Create a detailed interaction web showing relation	onships between observed species:
:	
i !	
<u></u>	
Relationship Key:	
→ Predation	→ Competition
+ Mutualism	Ø No interaction
Interaction Analysis	
Identify the most connected species in your web.	
2. Explain why these connections are important:	

Habitat Assessment Survey

Habitat Features	Present?	Condition (1-5)	Notes
Tree Canopy			
Understory Vegetation			
Ground Cover			
Water Sources			
Natural Shelters			

Overall Habitat Quality Score

Poor	Fair	Good	Excellent

Human Impact Assessment

Positive Human Impacts

\${Array(4).fill().map(() => ` `).join(")}

Impact Type	Evidence	Effect on Biodiversity

Negative Human Impacts

\${Array(4).fill().map(() => ` `).join(")}

Impact Type	Evidence	Effect on Biodiversity

Conservation Recommendations
Short-term Actions (0-6 months) Action 1:
Implementation steps:
Action 2:
Implementation steps:
Long-term Actions (6+ months)
Action 1:
Implementation steps:
Action 2:
Implementation steps:

Research Conclusions
Key Findings
1. Species Diversity:
2. Habitat Quality:
3. Environmental Factors:
4. Human Impacts:
Davis and Daffers (Co.
Personal Reflection
What I learned about biodiversity research:
How this research can help protect local ecosystems:

search Conclusions		
Final Research Summary:		
Key Findings:		
Most significant observation:		
2. Unexpected discoveries:		
3. Suggestions for future resea	rch:	
Teacher Assessment:		
Criteria	Rating (1-5)	Comments
Data Collection		
Analysis		
Presentation		