

Ecosystem Web of Life Activity Worksheet

Learning Objectives

- Understand the basic components of an ecosystem
- Identify relationships between different organisms
- Recognize the importance of biodiversity
- Develop observation and analytical skills

the organisms b in how they help	elow and draw lines to each other.	connect those that have	e a relationship.
Sun	Plant	Bee	Bird
lain the relation	ships:		
1. Sun helps pl	ant by:		
2. Plant helps b	oee by:		
3 Ree heins ni	ant by:		
o. Dec neips pi			

Activity 2: What Does It Need?

Observe the plant provided by your teacher carefully. Complete the following analysis:

Survival Needs	Helpers	Dependents	
	•	•	

1	1	1
2	2	2
3	3	3
4	4	4

Activity	3:	Soil	Explorer	Investigation

Using your magnifying glass, carefully examine the soil sample provided. Record your observations below:

Drawing 1	Drawing 2	Drawing 3
oil Investigation Results:		
	eatures found:	
2. Types of creatures ide	entified:	
	es help plants grow? Explain l	below:

Activity 4: Web Building Challenge

Draw arrows between the organisms to show their relationships. Use different colored arrows for different types of relationships (e.g., red for food, blue for shelter, green for pollination).

Flower		Butterfly	Bird		Worm
	Soil			Seeds	

Reflection Questions:

0.1:				
3. Li	•	ant relationships	-	
	o			
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Activity 5: Ecosystem Disruption Scenario

Read each scenario and analyze the potential impacts on the ecosystem. Consider both immediate and long-term effects.

Scenario 1: The Missing Bees

		_	_	
Imagine all the bees in v		C: d 4h		
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initiaginic an the bees in	your local area algapt	carca. Obribiaci liik	, ionowing i	44636613.

Imagine all the bees in your local area disappeared. Consider the	e following
Immediate Effects:	
1. Effect on flowers: 2. Effect on fruit trees: 3. Effect on birds:	
Long-term Effects:	
Effect on food supply: Effect on other insects: Effect on ecosystem balance:	
Propose three solutions to prevent this scenario:	
1	
Activity 6: Food Chain Detective	

Create a deta	ailed food	chain us	ing the	organisms	provided.	Then answer	the analysis
questions.							

4
Producer
\rightarrow
Primary Consumer
\rightarrow
Secondary Consumer
\rightarrow
Tertiary Consumer

Available Organisms: Grass, Mouse, Snake, Hawk, Rabbit, Fox, Grasshopper, Eagle

Answer the following:

- 1. Which organism is the producer and why? ____
- 2. What would happen if we removed the primary consumer?
- 3. How does energy flow through this chain?

Activity 7: Habitat Investigation Project

Choose a small area in your school yard or local park to study. Complete the following

habitat survey.	,	,	,	, and the second		
Habitat Survey Form						
Date:		Time:		-		
Weather:	-	Temperature:				
Plants Observed:						
1						
2						
3						
4						
Animals Observed:						
1						
2						
3						
4						
Evidence of Life:						
1						
2						

4. _____

Activity 8: Ecosystem Services Investigation

Identify and analyze the different services provided by your local ecosystem.

Supporting Services

Soil Formation:

- Nutrient Cycling: _______

Regulating Services

- Climate Control: _______
- Water Filtration:
- Disease Control:

Provisioning Services		
Food Sources:		
Fresh Water:		
Raw Materials:		

Activity 9: Ecosystem Health Assessment

Complete this assessment to determine the health of your studied ecosystem.

Health Indicator	Rating (1-5)	Evidence
Biodiversity		
Water Quality		
Soil Health		
Plant Health		
Animal Activity		

Overall He	alth Score:/25	
Recomme	ndations for Improvement:	
1		
2		
3		

Final Reflection and Conclusions

- 1. What was the most surprising thing you learned about ecosystems?
- 2. How are humans part of the ecosystem you studied?
- 3. What actions can you take to protect your local ecosystem?
- 4. How has this study changed your view of nature?

Great job completing your ecosystem exploration!

Remember to share your findings with your classmates tomorrow.

Final Thoughts:

 What was the most interesting thing you learned today?
How will you help protect ecosystems in your daily life?
How will you help protect ecosystems in your daily life?