



Ecosystem Connections: Understanding Biodiversity and Balance

Vocabulary Explorer (15 minutes)

Match each term with its correct definition. Then, create your own example of each!

Terms:

1. Biodiversity

2. Ecosystem

3. Habitat

4. Conservation

Definitions:

A. The natural home where an organism lives

B. Actions that protect living things

C. Many different living things working together

D. A community of living things interacting with their environment

Create Your Own Examples:

Biodiversity example: (Think about your school playground)

Ecosystem example: (Think about a place in nature you've visited)

Ecosystem Detective Challenge (20 minutes)

Study the forest ecosystem image carefully and complete the following tasks:

1. Animal Count:

How many different animals can you spot? _____

List the animals you found:

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2. Plant Discovery:

List three different plants you can see and describe their location:

Plant Name	Where is it located?

Food Web Builder (25 minutes)

Create your own food web using the space below. Draw arrows to show what eats what!

Draw your food web here

Check your food web:

- Did you include at least 3 plants?
- Did you include at least 4 animals?
- Did you draw arrows showing what eats what?
- Did you label all your arrows?

Challenge Question:

What would happen to your food web if we removed one animal? Choose one animal and explain:

Habitat Investigation Project (30 minutes)

Choose a local habitat to study and complete the following research guide:

Habitat Information:

Location Name: _____

Type of Habitat: _____

Weather Conditions: _____

Plants Observed

.....
.....
.....

Animals Observed

.....
.....
.....

Environmental Impact Assessment (25 minutes)

Analyze how human activities affect your chosen habitat:

Human Activities Impact Chart

Human Activity	Positive Effects	Negative Effects
Building Houses		
Planting Trees		
Creating Parks		

Environmental Solutions

Propose three solutions to help protect your habitat:

Solution 1:

Solution 2:

Solution 3:

Biodiversity Action Plan (35 minutes)

Create a plan to improve biodiversity in your local area:

Current Biodiversity Assessment

Green Spaces Available:

Existing Wildlife:

Biodiversity Improvement Actions

Action	Resources Needed	Timeline

Ecosystem Connections Project (40 minutes)

Create a detailed diagram showing how different species in your local ecosystem are connected:

Draw your ecosystem connections here

Analyze Your Ecosystem Connections

1. What is the most important connection you found?

2. How might climate change affect these connections?

3. What can we do to protect these connections?

Reflection and Summary

What I Learned Today:

Questions I Still Have:

Two empty rectangular boxes for writing questions.

Well done on completing your ecosystem exploration!

Remember to share your discoveries with your family tonight!