



### Ecosystem Connections: Understanding Biodiversity

#### Student Information

Please fill in your details:

Name: \_\_\_\_\_ Date: \_\_\_\_\_

#### Warm-Up Activity: Living vs Non-Living

Circle all the living things in the list below. Then explain why you think each is living or non-living in the space provided.

Rock

 Tree

 Water

 Bird

 Butterfly

 Cloud

Worm

 Soil

**Explain your choices:**

Living things are: \_\_\_\_\_

Because: \_\_\_\_\_

#### Understanding Ecosystems

Match each term with its correct definition by drawing lines between them.

Ecosystem

Habitat

Biodiversity

The variety of different living things in an area

A place where an animal or plant lives

All living things working together in an area

Conservation

Taking care of nature and its creatures

## Draw Your Local Ecosystem

*In the box below, draw what you see in nature near your home. Label at least 5 different living things and show how they might interact with each other.*

[Drawing Space]

### Label your drawing:

1. Living thing 1: \_\_\_\_\_
2. Living thing 2: \_\_\_\_\_
3. Living thing 3: \_\_\_\_\_
4. Living thing 4: \_\_\_\_\_
5. Living thing 5: \_\_\_\_\_

## Food Chain Challenge

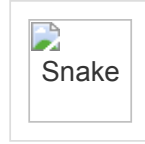
*Put these organisms in order from first to last in the food chain by writing numbers 1-4 in the circles.*



Grass



Mouse



Snake



Hawk



## Habitat Investigation

Study the different types of habitats below and complete the analysis tasks.

### Forest Habitat

- Temperature: 15-25°C
- Rainfall: High
- Vegetation: Dense
- Animals: Many species

What adaptations would animals need here?

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### Desert Habitat

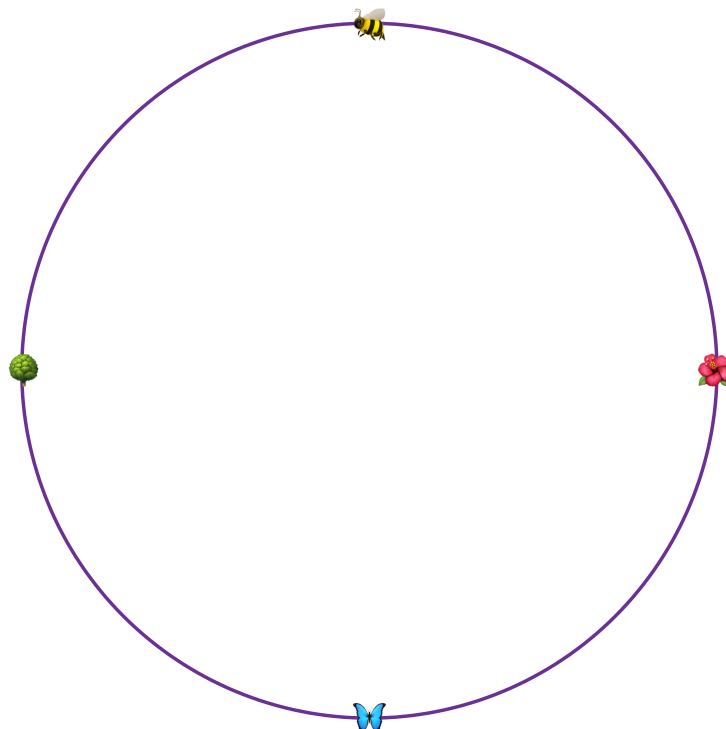
- Temperature: 35-45°C
- Rainfall: Very low
- Vegetation: Sparse
- Animals: Few species

How do plants survive here?

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## Ecosystem Connections Web

Draw lines between organisms that interact with each other. Then describe how they interact in the spaces below.



## Environmental Impact Study

Analyze how human activities affect ecosystems. Complete the cause and effect chart.

Human Activity	Impact on Ecosystem	Possible Solutions
Deforestation		
Pollution		
Urban Development		

## Conservation Challenge

Design a conservation plan for your local area. Fill in the planning template below.

### 1. Identify Local Species at Risk

### 2. Current Threats

### 3. Action Steps

## Biodiversity Data Collection


Record and analyze the biodiversity in your study area.

Species Type	Count	Location Found	Behavior Observed
Plants			
Insects			
Birds			
Other Animals			

## Ecosystem Health Assessment


Rate the health of your ecosystem based on the following factors.

**Species Diversity**

Poor  Excellent

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**Habitat Quality**

Poor  Excellent

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## Reflection and Summary

Complete these sentences to show what you've learned today:

1. Today I learned that an ecosystem is \_\_\_\_\_
2. The most interesting thing I discovered was \_\_\_\_\_
3. One way I can help protect ecosystems is \_\_\_\_\_

### Well Done!

You've completed your ecosystem exploration! Don't forget to:

- Share what you've learned with your family
- Look for examples of ecosystems in your neighborhood
- Think about how you can help protect nature

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**Teacher's Comments:**

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**Grade:** \_\_\_\_/10