

# **Biodiversity Explorers: Student Activity Workbook**

#### **Section 1: Getting to Know Biodiversity (20 minutes)**

Welcome young explorer! Let's discover the amazing world of biodiversity together.

#### **Activity 1: I Spy Nature!**

Look carefully at each ecosystem picture below. Use different colored pencils to:

- Circle all living things in GREEN
- Draw squares around habitats in BLUE
- Draw lines connecting animals to their homes in RED

Rainforest Ecosystem	Ocean Ecosystem
[Drawing Space]	[Drawing Space]

Desert Ecosystem

[Drawing Space]

Arctic Ecosystem

[Drawing Space]

#### **My Biodiversity Dictionary**

Complete these important definitions using the word bank below:

**Word Bank:** variety of life | place where animals live | protecting nature | community of plants and animals

1. Biodiversity means \_\_\_\_\_

2. An ecosystem is		
3. Conservation means		
4. A habitat is		

TRainforest	© Ocean	<u></u> Desert □
Arctic	₩ Grassland	
w and label 5 different anin  Animal 1  Name:	als that live in your chosen ecosy	vstem: Animal 2

Section 2: Ecosystem Explorer (30 minutes)

## **Habitat Detective Questions**

Answer these questions about your chosen ecosystem:

Weather Investigation:
What is the weather usually like in your ecosystem?
Temperature:
Rainfall:
Seasons:
Plant Investigation:
List 3 types of plants that grow in your ecosystem:
1
Location Investigation:
Where in the world can we find your ecosystem? List 3 places:
1
Special Features:
What makes your ecosystem unique? List 3 special things:
1
Special Features: What makes your ecosystem unique? List 3 special things:

### **Section 3: Food Web Challenge (45 minutes)**

Let's explore how energy flows through your ecosystem!

#### **Create Your Food Web**

Draw your food web here. Remember to:

- Include at least 8 different organisms
- Use arrows to show energy flow
- Label producers, consumers, and decomposers
  Color-code different levels of the food chain

#### **Classify Your Organisms**

Туре	Examples from Your Web
Producers	12
Primary Consumers	12
Secondary Consumers	12
Decomposers	12

## **Section 4: Adaptation Investigation (30 minutes)**

Discover how animals adapt to survive in their environment!

### **Animal Adaptation Analysis**

Choose three animals from your ecosystem and explain their special adaptations:

Draw your animal here	Physical Adaptations:	
	1. 2.	
	Behavioral Adaptations:	
	1	
imal 2:		
	Physical Adaptations:	
	Physical Adaptations:	
nimal 2: Draw your animal here	Physical Adaptations:  1 2	

### Section 5: Environmental Threats & Solutions (40 minutes)

Investigate the challenges facing your ecosystem and propose solutions!

### **Ecosystem Threat Assessment**

**Problems** 

List 3 threats to your ecosystem:	Propos ecosys
1	1 2 3 Who ca
• Joil	

#### **Solutions**

Propose 3 solutions to help protect your ecosystem:

1.			
2			
ຈີ			

Who can help?

•	Scientists:	
	_	

- Government: \_\_\_\_\_

   Communities: \_\_\_\_\_\_
- Students:
  \_\_\_\_\_\_\_\_\_

# **Section 6: Conservation Action Plan (35 minutes)**

Design your own conservation project to protect your ecosystem!

# **My Conservation Project**

Project Details		
Project Name:		
Target Species/Area:		
Goals (What do you want to achieve?)		
1 2 3		

Action Steps (How will you do it?)

Step	Timeline	Resources Needed
1.		
2.		
3.		

### Congratulations!

You've completed your biodiversity exploration! Let's finish with a quick reflection.

### **My Biodiversity Journey**

The most interesting thing I learned today was:

One thing I want to learn more about is:

My favorite ecosystem is:



Remember: Every living thing plays an important role in our world's biodiversity!