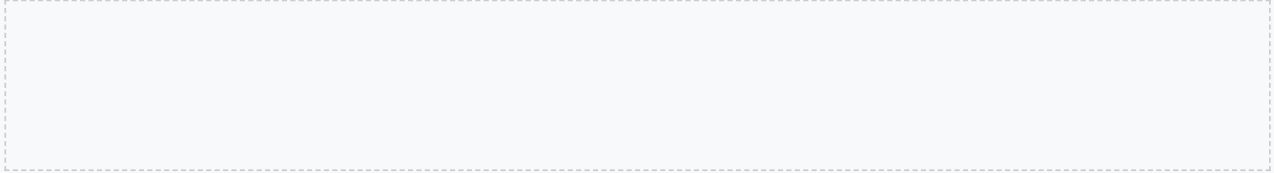


## Introduction

---

Welcome to Exploring Local Ecosystems and Biodiversity

*In this lesson, we will learn about the different components of local ecosystems, the importance of biodiversity, and how human activities impact the environment.*



## Vocabulary Building

### Match the Words with Their Definitions

Match the following words with their definitions:

1. Habitat
2. Species
3. Conservation
4. Sustainability
5. Biodiversity

Definitions:

- The natural environment where an organism lives
- A group of living things that share similar characteristics
- The act of protecting and preserving the natural environment
- The ability to maintain or support a process or system over time
- The variety of different plants, animals, and microorganisms in an ecosystem

### Foundation: Sentence Frames

Use the following sentence frames to help you match the words with their definitions:

"The \_\_\_\_\_ is the natural environment where an organism lives."

"The \_\_\_\_\_ is a group of living things that share similar characteristics."

### Core: Research and Add a Definition

Research and add one more definition to the list, and then match the words with their definitions.

### Extension: Create Your Own Vocabulary List

Create your own vocabulary list with 5 new words related to ecosystems and biodiversity, and then match the words with their definitions.



## Ecosystem Diagram

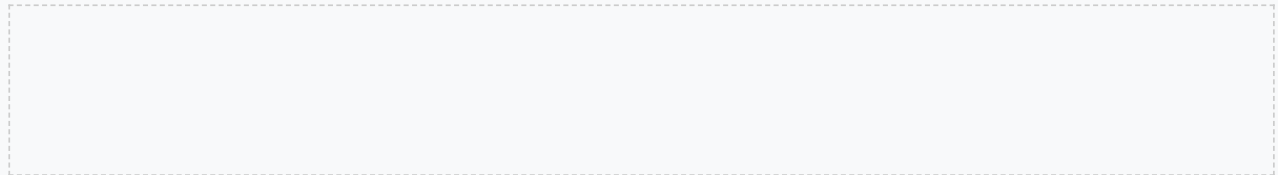
### Draw a Diagram of a Local Ecosystem

*Draw a diagram of a local ecosystem, including the following components:*

- Plants
- Animals
- Water
- Soil
- Sunlight

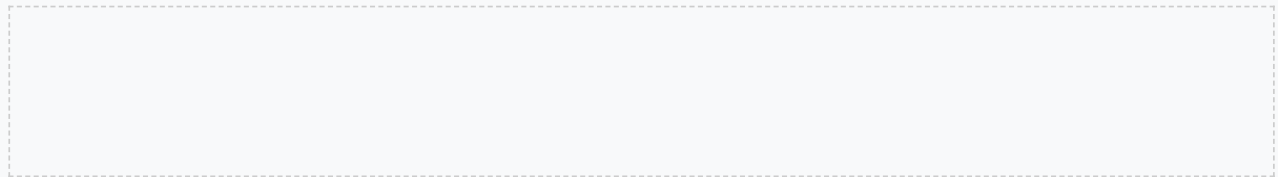
*Use the following template to help you draw your diagram:*

```
+-----+
|  Plants  |
+-----+
| Animals  |
+-----+
|  Water   |
+-----+
|   Soil   |
+-----+
| Sunlight |
+-----+
```



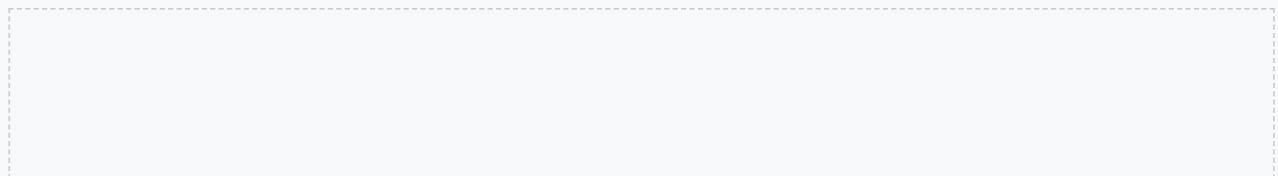
### Core: Add Two More Components

*Add two more components to your diagram, such as air and microorganisms.*



### Extension: Create a 3D Model

*Create a 3D model of your ecosystem using recycled materials.*



## Biodiversity Sorting

---

### Sort the Animals into Their Respective Habitats

---

*Sort the following animals into their respective habitats:*

- Lion
- Fish
- Bird
- Insect
- Tree

*Habitats:*

- Desert
- Ocean
- Forest
- Grassland
- Pond

*Use the following sentence frames to help you sort the animals:*

*"The \_\_\_\_\_ lives in the \_\_\_\_\_."*

### Core: Research and Add Two More Animals

---

*Research and add two more animals to the list, and then sort them into their respective habitats.*

### Extension: Create Your Own Sorting Game

---

*Create your own sorting game with 10 new animals and their habitats.*

## Conservation Efforts

---

### What Can We Do to Help Conserve Local Ecosystems and Biodiversity?

---

*What can we do to help conserve local ecosystems and biodiversity?*

- Reduce, Reuse, Recycle
- Plant trees and flowers
- Use public transport or walk/bike
- Turn off lights and electronics when not in use
- Support local conservation organizations

*Use the following sentence frames to help you complete the list:*

*"We can help conserve local ecosystems by \_\_\_\_."*

### Core: Research and Add Two More Conservation Efforts

---

*Research and add two more conservation efforts to the list.*

### Extension: Create a Public Service Announcement

---

*Create a public service announcement about the importance of conservation.*

## Ecosystem Services

---

### What Services Do Ecosystems Provide to Humans?

---

*What services do ecosystems provide to humans?*

- Clean air and water
- Food and shelter
- Climate regulation
- Soil formation
- Recreation and tourism

*Use the following sentence frames to help you complete the list:*

*"Ecosystems provide us with \_\_\_\_."*

### Core: Research and Add Two More Ecosystem Services

---

*Research and add two more ecosystem services to the list.*

### Extension: Create a Diagram

---

*Create a diagram showing the relationships between ecosystem services and human well-being.*

## Human Impact

---

### How Do Human Activities Impact Local Ecosystems and Biodiversity?

---

*How do human activities impact local ecosystems and biodiversity?*

- Pollution
- Deforestation
- Climate change
- Overfishing
- Habitat destruction

*Use the following sentence frames to help you complete the list:*

*"Human activities can harm ecosystems by \_\_\_\_."*

### Core: Research and Add Two More Human Impacts

---

*Research and add two more human impacts to the list.*

### Extension: Create a Case Study

---

*Create a case study on a specific human impact and its effects on a local ecosystem.*



## Reflection

---

### Reflect on What You Have Learned

---

*Reflect on what you have learned about local ecosystems and biodiversity. What can you do to help conserve and protect these ecosystems?*

*Use the following sentence frames to help you reflect:*

*"I learned that \_\_\_\_\_. I can help by \_\_\_\_\_."*

### Core: Write a Short Essay

---

*Write a short essay on what you have learned and how you can apply it in your daily life.*

### Extension: Create a Personal Action Plan

---

*Create a personal action plan to reduce your impact on the environment and promote conservation.*

### Resources for ELL/ESL Learners

---

*For ELL/ESL learners, please use the following resources to support your learning:*

- Bilingual dictionary
- Visual aids
- Sentence frames
- Peer-to-peer learning

## Assessment

### Assess Your Understanding

*Assess your understanding of local ecosystems and biodiversity by completing the following quiz:*

1. What is the natural environment where an organism lives called?
  - a. Habitat
  - b. Species
  - c. Conservation
  - d. Sustainability
2. What is the variety of different plants, animals, and microorganisms in an ecosystem called?
  - a. Biodiversity
  - b. Ecosystem
  - c. Conservation
  - d. Sustainability

*Use the following sentence frames to help you answer the questions:*

*"The \_\_\_\_\_ is the natural environment where an organism lives."*

*"The \_\_\_\_\_ is the variety of different plants, animals, and microorganisms in an ecosystem."*

### Core: Complete the Quiz and Create Your Own Questions

*Complete the quiz and then create your own quiz questions.*

### Extension: Create a Comprehensive Assessment

*Create a comprehensive assessment on local ecosystems and biodiversity.*

## Conclusion

---

### Congratulations on Completing the Lesson!

*Congratulations on completing our lesson on exploring local ecosystems and biodiversity! Remember that every small action can make a big difference in conserving and protecting our planet's precious ecosystems.*

*Use the following sentence frames to help you reflect:*

*"I learned that \_\_\_\_\_. I can help by \_\_\_\_\_."*

### Core: Write a Short Essay

*Write a short essay on what you have learned and how you can apply it in your daily life.*

### Extension: Create a Personal Action Plan

*Create a personal action plan to reduce your impact on the environment and promote conservation.*