

**Student Name:** \_\_\_\_\_

**Class:** \_\_\_\_\_

**Due Date:** \_\_\_\_\_

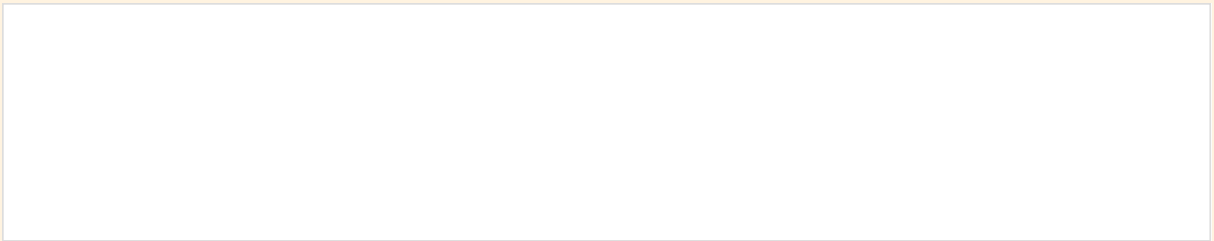
### Essential Understanding:

- Definition of an ecosystem
- Importance of biodiversity
- Types of ecosystems (terrestrial, freshwater, marine)
- Human impact on ecosystems

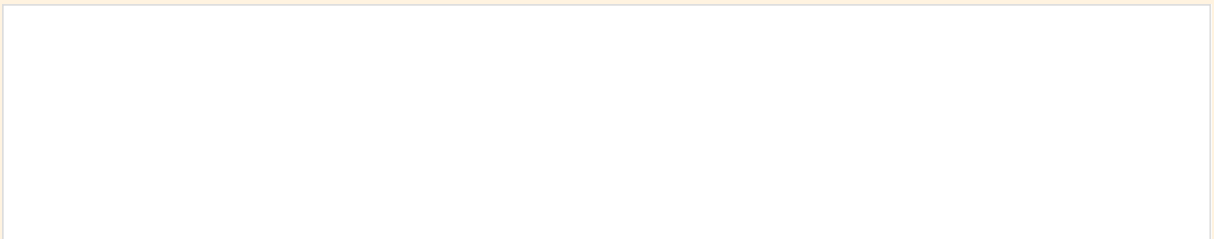
### Complete these concept checks:

1. Define and give an example of:

- Ecosystem
- Biodiversity
- Terrestrial ecosystem
- Human impact on ecosystems



2. Draw and label a simple diagram of a food chain in a terrestrial ecosystem



## Activity 1: Exploring Local Ecosystems

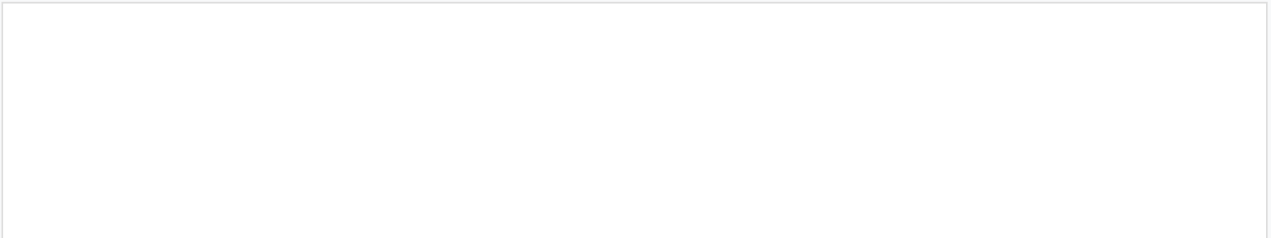
**Task:** Visit a local park or natural area and observe the different species of plants and animals. Record your observations and take photos of the species you find.

**Objective:** To understand the diversity of species in a local ecosystem.



**Task:** Create a diagrammatic map of the local ecosystem you visited, including the different species and their interactions.

**Objective:** To recognize the importance of biodiversity and the interactions between species.



## Activity 2: Biodiversity and Ecosystems

**Task:** Research and record examples of biotic (living organisms) and abiotic (non-living factors) that affect ecosystems. Discuss how these factors interact.

**Objective:** To understand the different types of factors that affect ecosystems.

**Task:** Write a short essay on the importance of biodiversity in maintaining healthy ecosystems.

**Objective:** To recognize the value of biodiversity in ecosystems.

### Activity 3: Human Impact on Ecosystems

**Task:** Research and write about human activities that affect local ecosystems. Discuss the positive and negative impacts.

**Objective:** To understand the impact of human activities on ecosystems.

**Task:** Propose three ways to reduce human impact on local ecosystems.

**Objective:** To think critically about ways to mitigate human impact on ecosystems.

## Reflection Questions

**Answer the following questions:**

1. How important is biodiversity?

2. How do human activities affect ecosystems?

3. What changes would you make in your daily life to protect ecosystems?

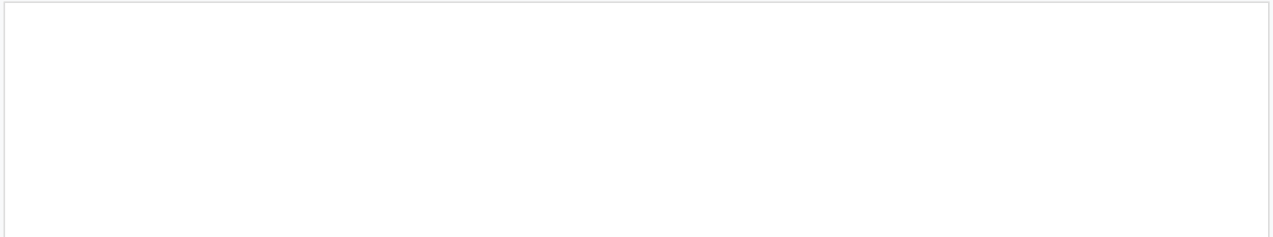
**Support:** Encourage your child to research and explore ecosystems. Help organize visits to parks or natural areas.

**Participation:** Participate in activities with your child and discuss observations and results.

## Note for the Educator

**This activity is designed to adapt to the needs of students aged 11, with the goal of promoting scientific thinking and critical analysis.**

**The activities can be adapted according to the needs and abilities of each student.**



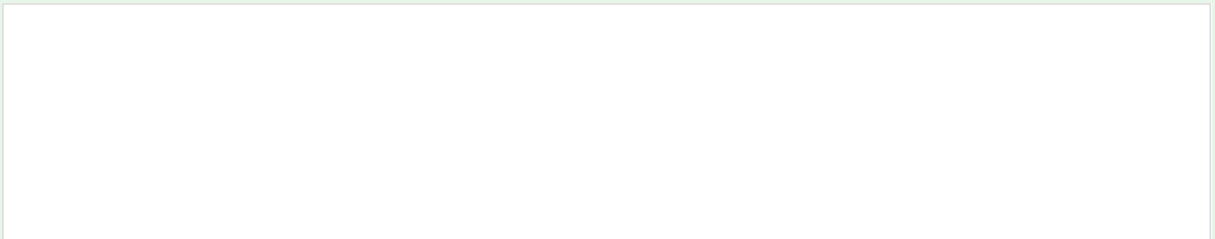
## Extension Activities (Optional)

### Choose any combination:

1. Design and explain a model of a sustainable ecosystem



2. Create a public service announcement about the importance of protecting ecosystems



3. Research and write about a current environmental issue affecting ecosystems

