



PLANIT
TEACHERS

Exploring Ecosystems and Conservation Homework Sheet

Student Name: _____

Class: _____

Due Date: _____

Introduction

Welcome to our homework sheet on Exploring Ecosystems and Conservation! This sheet is designed for 9-year-old students in the UK Primary School curriculum. The aim of this assignment is to educate students about the importance of biodiversity and its role in maintaining healthy ecosystems.

Section 1: Understanding Ecosystems

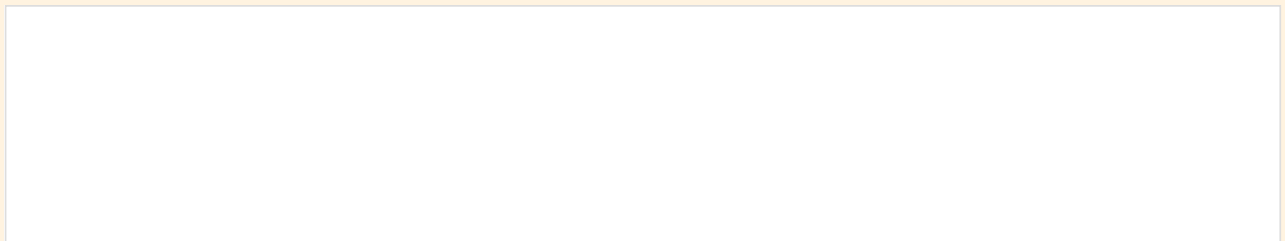
What is an Ecosystem?

An ecosystem is a community of living and non-living things that interact with each other. This includes plants, animals, microorganisms, water, and sunlight.

Foundation Level: Ecosystem Diagram

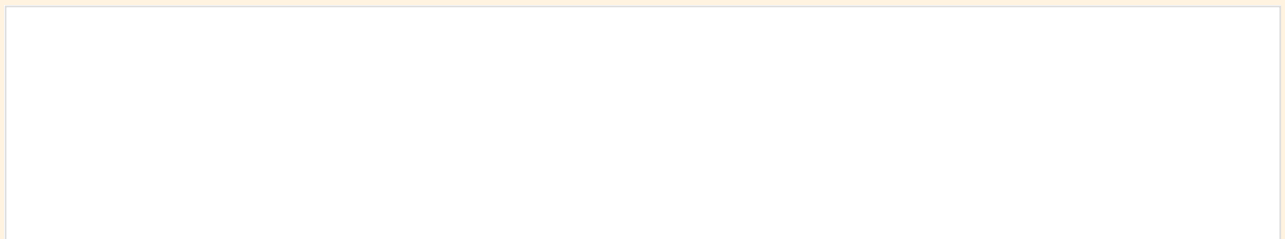
Draw a simple diagram of a forest ecosystem, including:

- Producers (plants)
- Consumers (animals)
- Decomposers (microorganisms)
- Sunlight and water



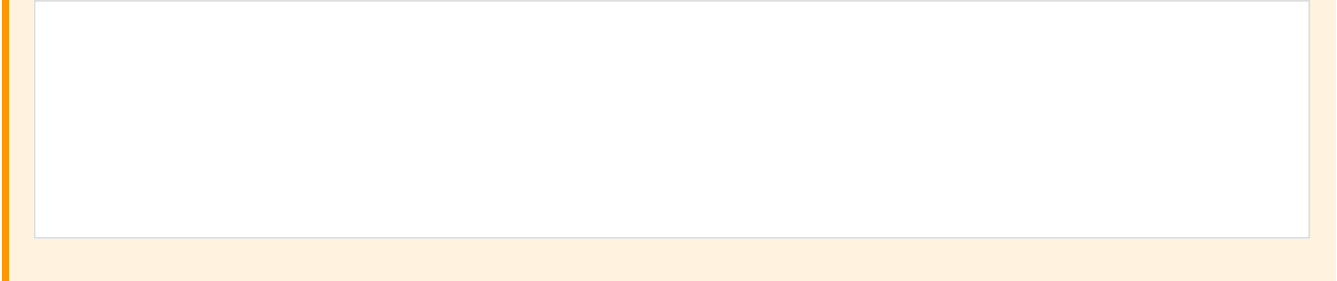
Core Level: Ecosystem Description

Write a short paragraph describing the different components of an ecosystem and how they interact with each other.



Extension Level: Ecosystem Research

Research and write about a specific ecosystem, such as a desert or ocean ecosystem. Include information about the different plants and animals that live there and how they adapt to their environment.



Section 2: Food Chains and Food Webs

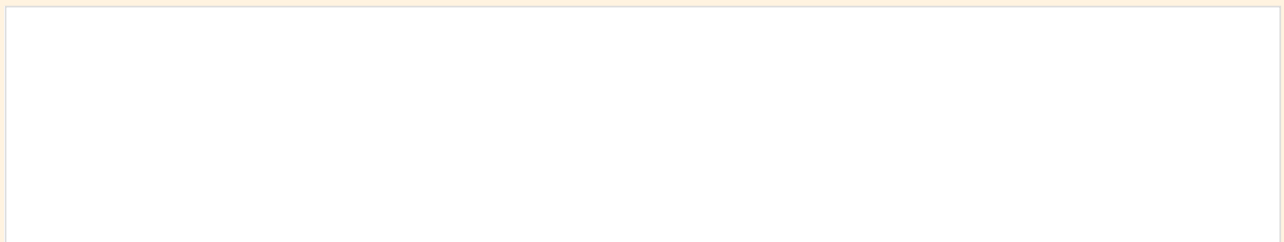
What is a Food Chain?

A food chain is a series of events where one organism is eaten by another. This shows the flow of energy from one organism to another.

Foundation Level: Food Chain Diagram

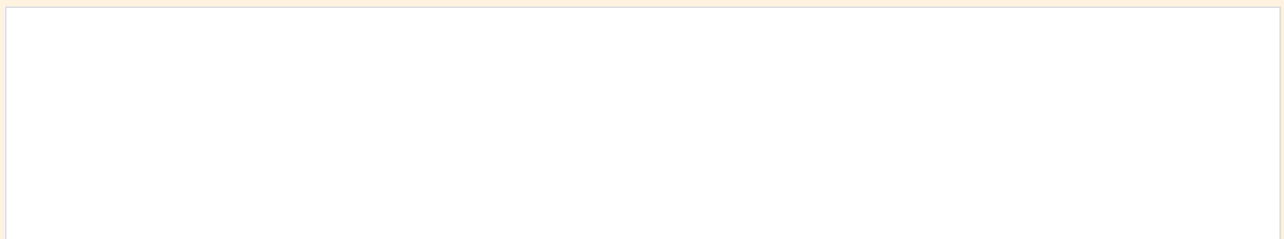
Draw a simple food chain diagram showing the relationships between different organisms in an ecosystem. Include:

- A producer (plant)
- A primary consumer (herbivore)
- A secondary consumer (carnivore)
- A tertiary consumer (top predator)
- A decomposer (microorganism)



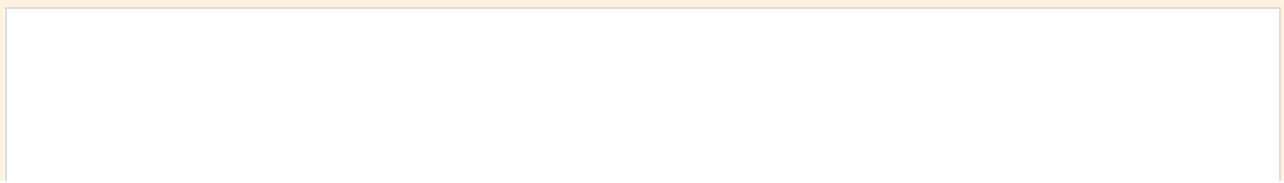
Core Level: Food Web Description

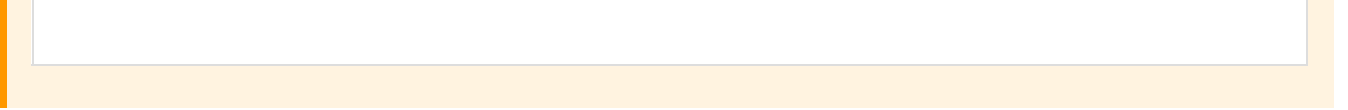
Write a short paragraph describing the difference between a food chain and a food web. Include examples of how different organisms are connected in a food web.



Extension Level: Food Chain Research

Research and write about a specific food chain or food web. Include information about the different organisms and how they interact with each other.





Section 3: Conservation and Biodiversity

Why is Conservation Important?

Conservation is important because it helps to protect and preserve ecosystems and the organisms that live there.

Foundation Level: Conservation Poster

Design a poster about the importance of conservation in ecosystems. Include:

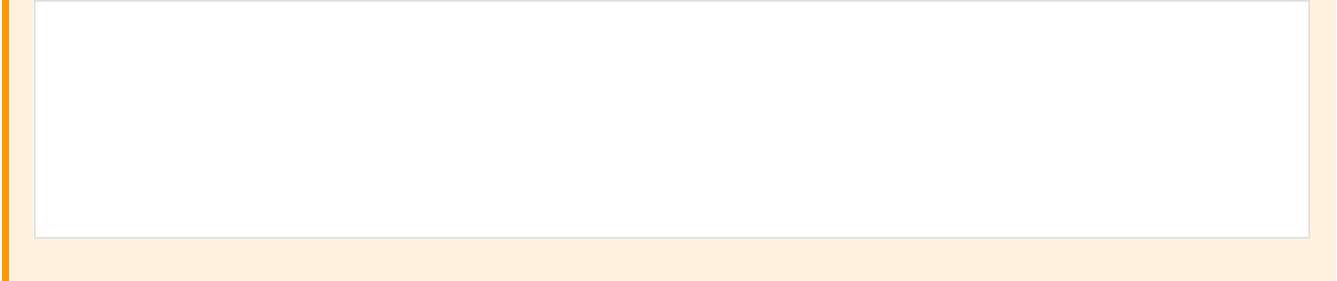
- A catchy title and slogan
- Images or diagrams of different ecosystems and the organisms that live there
- Facts and statistics about the impact of human activities on ecosystems
- Suggestions for ways to reduce, reuse, and recycle to help conserve ecosystems

Core Level: Conservation Essay

Write a short essay about the importance of conservation and biodiversity. Include examples of how human activities can harm ecosystems and what we can do to help protect them.

Extension Level: Conservation Research

Research and write about a specific conservation issue, such as deforestation or pollution. Include information about the causes and effects of the issue and what can be done to address it.



Section 4: Extension Activities

Ecosystem Dilemma

Imagine you are a conservationist tasked with managing a protected ecosystem. Write a short story (approx. 100-150 words) about a dilemma you face and how you would resolve it.

Biodiversity Survey

Conduct a survey of the plants and animals in your local area (e.g., school garden, park, backyard). Record your observations and create a table or graph to show the diversity of species.

Conclusion

Well done on completing this homework sheet! Remember to always think about the importance of conservation and biodiversity in your everyday life. What can you do to help protect ecosystems and the organisms that live there?

Self-Assessment Opportunities

What did I learn about ecosystems and conservation?

What challenges did I face, and how did I overcome them?

What would I like to learn more about in the future?

How can I apply what I've learned to real-life situations?

Parent/Guardian Notes

Encourage your child to ask questions and think critically about the topic

Provide access to resources and materials needed to complete the activities

Help your child manage their time and stay focused on the task

Review their work and provide feedback, using the success criteria as a guide

Discuss the importance of conservation and biodiversity in everyday life, and how your child can make a positive impact on the environment

Time Management Guidelines

Reading and research: 10 minutes

Activity 1: Ecosystem Diagram: 10 minutes

Activity 2: Food Chain: 10 minutes

Activity 3: Conservation Poster: 10 minutes

Extension activities: 10-20 minutes (optional)