

### Introduction to Food Chains (10 minutes)

Welcome to the world of food chains! In this activity, we will explore the basic concepts and definitions of food chains. Please answer the following questions:

1. What is a food chain?

2. What are the main components of a food chain?

3. What are the roles of producers, consumers, and decomposers in a food chain?

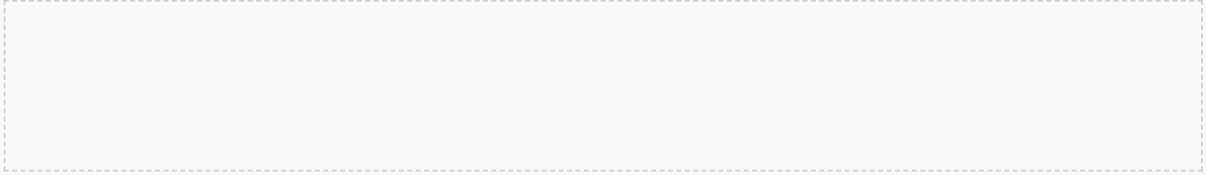
### Energy Flow and Nutrient Cycling (15 minutes)

Please answer the following questions:

1. What is the importance of energy flow and nutrient cycling in a food chain?

2. Draw a simple food chain and label its components.

3. How do human activities affect food chains?



## Examples of Food Chains (15 minutes)

*Please describe the following food chains:*

1. A grassland ecosystem food chain.

2. A marine ecosystem food chain.

3. Compare and contrast two different food chains.

## Importance of Food Chains (10 minutes)

*Please answer the following questions:*

1. Why are food chains important for maintaining ecosystem balance and health?

2. Explain the nutrient cycle in a food chain.

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3. Describe the application of food chains in our daily lives.

## Food Chain Games (15 minutes)

*Please play a food chain game to simulate the relationships in a food chain.*

### Group Task:

Design a food chain game to simulate energy flow and nutrient cycling.

[Space for game design]

## Food Chain Discussion (10 minutes)

*Please discuss the following topics:*

1. Energy flow and nutrient cycling in food chains.

2. Human activities that affect food chains.

3. The importance of food chains in our daily lives.

### Case Study: Food Chains (15 minutes)

*Please analyze the following food chains:*

1. A grassland ecosystem food chain.

2. A marine ecosystem food chain.

3. Compare and contrast two different food chains.

### Research: Food Chains (15 minutes)

*Please research and write a report on the following topics:*

1. A specific food chain and its components.

2. Human activities that affect food chains.

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3. The application of food chains in our daily lives.

## Reflection: Food Chains (10 minutes)

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### Individual Reflection:

1. What did you learn about food chains?

2. How will you apply your knowledge of food chains in your daily life?

3. What questions do you still have about food chains?

## Conclusion: Food Chains (10 minutes)

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*Please summarize what you learned about food chains.*

## Assessment: Food Chains (15 minutes)

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*Please complete the following assessment:*

1. Multiple-choice questions about food chains.

2. Short-answer questions about food chains.

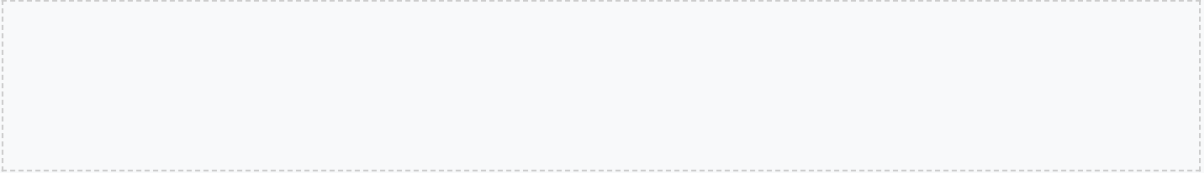
3. An essay question about the importance of food chains.

### Extension: Food Chains (15 minutes)

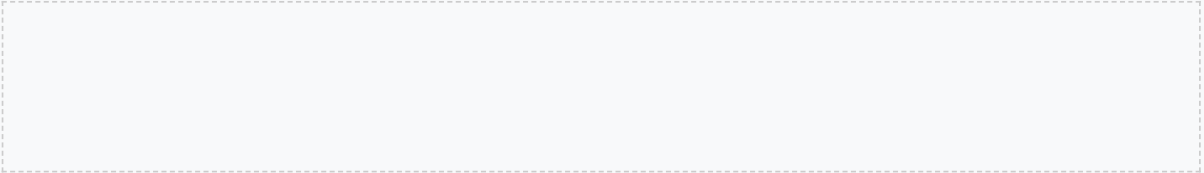
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*Please complete the following extension activities:*

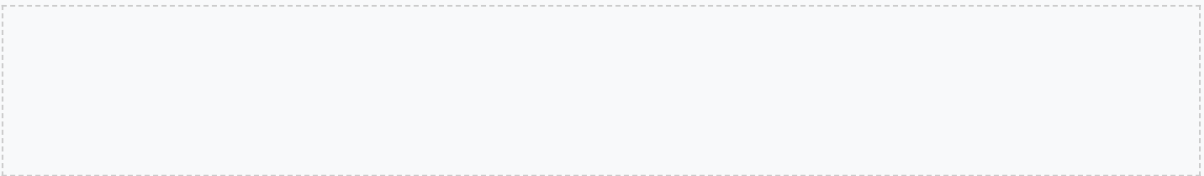
1. Research and create a presentation about a specific food chain.

A large, empty rectangular box with a dashed border, intended for a student to create a presentation about a specific food chain.

2. Design and create a model of a food chain.

A large, empty rectangular box with a dashed border, intended for a student to design and create a model of a food chain.

3. Write a story or create a comic strip about a food chain.

A large, empty rectangular box with a dashed border, intended for a student to write a story or create a comic strip about a food chain.



