

Student Exploration: Food Chain

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes. Change your text color for your answers.

Define Each Vocabulary Word:

consumer- a living creature that eats organisms from a different population

ecosystem-a geographic area where plants, animals, and other organisms, as well as weather and landscape, work together to form a bubble of life

energy pyramid- a graphical representation of the energy found within the trophic levels of an ecosystem

equilibrium-the current functions of the body are able to keep the body at a stable condition

food chain- the sequence of transfers of matter and energy in the form of food from organism to organism

population-a group of individuals of the same species living and interbreeding within a given area

predator- an organism that primarily obtains food by the killing and consuming of other organisms

prey- organisms that predators kill for food

Producer- organisms that make their own food

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

The Food Chain Gizmo shows a **food chain** with hawks, snakes, rabbits, and grass. In this simulation, the hawks eat snakes, the snakes eat rabbits, and the rabbits eat grass.

1. **Producers** are organisms that do not need to eat other organisms to obtain energy.

A. Which organism is a producer in this food chain?	grass
B. Where does the producer get its energy?	The sun

2. **Consumers** must eat other organisms for energy. Which organisms are consumers in this food chain?

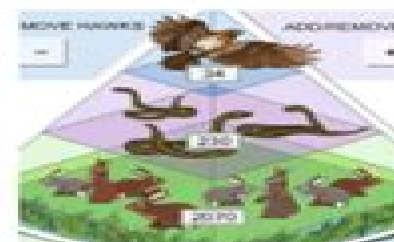
Hawks, snakes, and rabbits

Gizmo Warm-up

The SIMULATION pane of the Gizmo shows the current **population**, or number, of each organism in the food chain.

1. What are the current populations of each organism?

Hawks:	42	Snakes:	278	Rabbits:	2566	Grass:	27300
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2. Select the BAR CHART tab, and click **Play** (▶). What do you notice about each population as time goes by?

The population of rabbits and grass increases.

If populations don't change very much over time, the ecosystem is in **equilibrium**.

3. Notice the populations decrease as you go from the bottom of the food chain to the top. Why do you think this is so?

There are more producers than consumers so it balances out.

Explore Learning Food Chain Gizmo Answer Key

Ying Liu

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Explore Learning Food Chain Gizmo Answer Key:

The book delves into Explore Learning Food Chain Gizmo Answer Key. Explore Learning Food Chain Gizmo Answer Key is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Explore Learning Food Chain Gizmo Answer Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Explore Learning Food Chain Gizmo Answer Key
 - Chapter 2: Essential Elements of Explore Learning Food Chain Gizmo Answer Key
 - Chapter 3: Explore Learning Food Chain Gizmo Answer Key in Everyday Life
 - Chapter 4: Explore Learning Food Chain Gizmo Answer Key in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Explore Learning Food Chain Gizmo Answer Key. The first chapter will explore what Explore Learning Food Chain Gizmo Answer Key is, why Explore Learning Food Chain Gizmo Answer Key is vital, and how to effectively learn about Explore Learning Food Chain Gizmo Answer Key.
 3. In chapter 2, this book will delve into the foundational concepts of Explore Learning Food Chain Gizmo Answer Key. The second chapter will elucidate the essential principles that must be understood to grasp Explore Learning Food Chain Gizmo Answer Key in its entirety.
 4. In chapter 3, this book will examine the practical applications of Explore Learning Food Chain Gizmo Answer Key in daily life. The third chapter will showcase real-world examples of how Explore Learning Food Chain Gizmo Answer Key can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Explore Learning Food Chain Gizmo Answer Key in specific contexts. This chapter will explore how Explore Learning Food Chain Gizmo Answer Key is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Explore Learning Food Chain Gizmo Answer Key. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Explore Learning Food Chain Gizmo Answer Key.

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