

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?

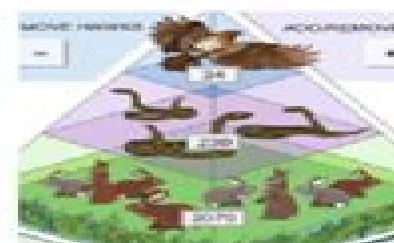
Hawks, snakes, and rabbits

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.

Answers For Gizmo Food Chain

Léo Pomar

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.

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Table of Contents Answers For Gizmo Food Chain

1. Understanding the eBook Answers For Gizmo Food Chain
 - The Rise of Digital Reading Answers For Gizmo Food Chain
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Gizmo Food Chain
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Gizmo Food Chain
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Gizmo Food Chain
 - Personalized Recommendations
 - Answers For Gizmo Food Chain User Reviews and Ratings
 - Answers For Gizmo Food Chain and Bestseller Lists
5. Accessing Answers For Gizmo Food Chain Free and Paid eBooks
 - Answers For Gizmo Food Chain Public Domain eBooks
 - Answers For Gizmo Food Chain eBook Subscription Services
 - Answers For Gizmo Food Chain Budget-Friendly Options

6. Navigating Answers For Gizmo Food Chain eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Gizmo Food Chain Compatibility with Devices
 - Answers For Gizmo Food Chain Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Gizmo Food Chain
 - Highlighting and Note-Taking Answers For Gizmo Food Chain
 - Interactive Elements Answers For Gizmo Food Chain
8. Staying Engaged with Answers For Gizmo Food Chain
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Gizmo Food Chain
9. Balancing eBooks and Physical Books Answers For Gizmo Food Chain
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Gizmo Food Chain
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Gizmo Food Chain
 - Setting Reading Goals Answers For Gizmo Food Chain
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Gizmo Food Chain
 - Fact-Checking eBook Content of Answers For Gizmo Food Chain
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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