

## 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?

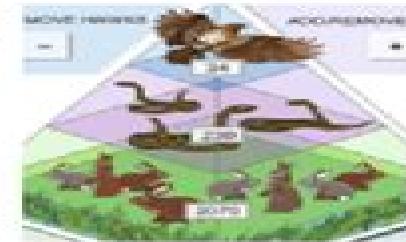
**Hawks, snakes, and rabbits.**

### 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.**

## Answer Key To Food Chain Gizmo

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## Answer Key To Food Chain Gizmo:

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Hardyman, 2016-12-15. Hippos might dine on veggies but their powerful jaws can snap a crocodile in half. Readers will discover the unique eating habits of remarkable creatures at every level of the food chain in this exciting volume as they pour over fascinating photographs and devour informative fact boxes. Cool quiz questions and a helpful answer key make math

problems feel like a fun game and allow readers an opportunity for self assessment This cross curricular approach to life science and math makes this book a welcome addition to any collection

Answer Key To Food Chain Gizmo: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Answer Key To Food Chain Gizmo : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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