

## 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?

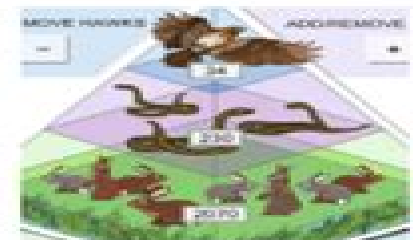
Hawks, snakes, and rabbits

### 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.

# Gizmo Food Chain Answers Key

**G Psacharopoulos**

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.

## **Gizmo Food Chain Answers Key:**

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*International Trade Reporter* ,1967     **India Today International** ,2000-10     *The Advertising Red Books* ,2007-07     **F & S Index United States Annual** ,2006     **PC World** ,2003     *Australian Book Review* ,1995     *Exploring Food Chains with Math* Robyn 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

**Food Chains in the Forest** Elizabeth Krajnik, 2017-12-15 Computer science is all around us at school at home and in the community This book gives readers the essential tools they need to understand the computer science concept of loops Brilliant color photographs and accessible text will engage readers and allow them to connect deeply with the concept The computer science topic is paired with an age appropriate curricular topic to deepen readers learning experience and show how loops work in the real world In this book readers will learn how food chains work as a loop This nonfiction book is paired with the fiction book Felicia Studies Food Chains ISBN 9781508137573 The instructional guide on the inside front and back covers provides Vocabulary Background knowledge Text dependent questions Whole class activities and Independent activities

The Food Chain (Fourth Grade Science Experiments) Thomas Bell, 2013-12-10 If your child is struggling with science then this book is for you the short book covers the topic and also contains 5 science experiments to work with and ten quiz questions The book covers the following The First Link In The Chain Who And What Makes A Food Chain How It All Works Our Food Chain The Food Chain Is The Circle Of Life Food Chain Experiments This subject comes from the book Fourth Grade Science For Home School or Extra Practice it more thoroughly covers more fifth grade topics to help your child get a better understanding of fifth grade math If you purchased that book or plan to purchase that book do not purchase this as the problems are the same

*Who Eats What?* Patricia Lauber, 1995 Explains the concept of a food chain and how plants animals and humans are ecologically linked

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