

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:

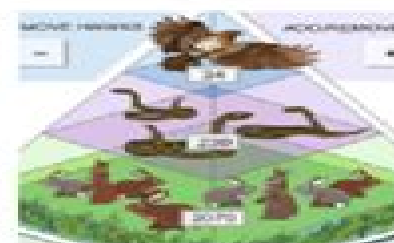
278

Rabbits:

2566

Grass:

27300



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

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Answers For Gizmo Food Chain:

Dps , The Magazine: The Complete Archives Glenn Fleishman,2015-08-12 This ebook collects the nearly 300 stories that first appeared in The Magazine an independent biweekly periodical for narrative non fiction It covers researchers crying wolf learning to emulate animal sounds DIY medical gear making prosthetics and other tools available more cheaply and to the developing world a fever in Japan that leads to a new friendship saving seeds to save the past the plan to build a giant Lava Lamp in eastern Oregon Portland s unicycle riding Darth Vader mask wearing flaming bagpipe player a hidden library at MIT that contains one of the most extensive troves of science fiction and fantasy novels and magazines in the world and far far more *Working Mother* ,2003-11 The magazine that helps career moms balance their personal and professional lives

Accelerating New Food Product Design and Development Jacqueline H. Beckley,M. Michele Foley,Elizabeth J. Topp,Jack C. Huang,Witoon Prinyawiwatkul,2008-02-28 To compete in today s marketplace food product developers are under pressure to create innovative new products at a time when there are demands on them to do more with less of everything In *Accelerating New Food Product Design and Development* a group of seasoned food industry business professionals and academics show today s food scientists technologists and product developers the contemporary R D processes they need to maximize speed quality and efficiency *Accelerating New Food Product Design and Development* is of value to a number of audiences For food industry executives it offers a summary of perspectives of the business they are in from unique viewpoints Academics and students gain a real world perspective of what is occurring in the food industry at the beginning of the 21st Century And for practicing food scientists and allied professionals the book provides strategic frameworks for problem solving and the R D strategies processes and methods needed to accelerate and optimize new product development

Business Mexico ,2000 **Uncle John's Bathroom Reader Weird Inventions** Bathroom Readers' Institute,2013-05-01 Discover strange gadgets you never knew existed in this volume from the nation s top collector of curious and interesting information The writers behind Uncle John s Bathroom Reader present this totally true treasury of amazing gizmos devilish devices you never knew existed created by people who thought the world absolutely needed what they had to offer and sell Read all about The onesie that turns your crawling baby into a mop The fart stifling blanket The square watermelon The video game you control with your mind The weight loss device that sucks food out of your stomach and much much more

Success Leaves Clues John L. Stanton,1994 **Adweek** ,2005-10 **Tokyo, Kyoto & Ancient Nara** Richard Lloyd Parry,1999 This guide takes the reader by the hand through the complexities and culture of Japan with a wealth of knowledge on the Japanese people and a section on business and social etiquette How to Love Animals Henry Mance,2021-04-29 A far reaching urgent and thoroughly engaging exploration of our relationship with animals from the acclaimed Financial Times journalist This might be the worst time in history to be an animal But is there a happier way Factory farms climate change deforestation and pandemics have made our relationship with the other species unsustainable

In response Henry Mance sets out on a personal quest to see if there is a fairer way to live alongside the animals we love He goes to work in an abattoir and on a farm to investigate the reality of eating meat and dairy He explores our dilemmas around over fishing the seas visiting zoos and owning pets and he meets the chefs activists scientists and tech visionaries who are redefining how we think about animals A Times Book of the Year **Press Summary - Illinois Information Service** Illinois Information Service,2003-08 *International Trade Reporter* ,1967 **Outlook** ,2004 **India Today International** ,2000-10 Venture ,1987 India Today ,1999 *New Scientist* ,1998 **Restaurant Management** ,1962 **Marketing & Media Decisions** ,1988 **The Coevolution Quarterly** ,1982

Decoding **Answers For Gizmo Food Chain**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Answers For Gizmo Food Chain**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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