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

Gizm o 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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 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

Wenbin Ji

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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 Working Mother, 2003-11 The magazine that helps career moms balance their personal and professional and far far more Accelerating New Food Product Design and Development Jacqueline H. Beckley, Leslie J. Herzog, M. Michele lives Foley, 2017-10-23 Written primarily for directors and managers of food design and development food scientists technologists and product developers this book explains all the necessary information in order to help meet the increasing demands for innovation in an industry that is providing fewer resources This updated edition by a group of seasoned food industry business professionals and academics provides a real world perspective of what is occurring in the food industry right now offers strategic frameworks for problem solving and R D strategies and presents methods needed to accelerate and optimize new product development Accelerating New Food Product Design and Development Second Edition features five brand new chapters covering all the changes that have occurred within the last decade A Flavor Supplier Perspective An Ingredient Supplier Perspective Applying Processes that Accelerate New Product Development Looking at How the University Prepares Someone for a Career in Food and Innovative Packaging and Its Impact on Accelerated Product Development Offers new perspectives on what really goes on during the development process Includes updated chapters fully describing the changes that have occurred in the food industry both from a developer's point of view as well as the consumer requirements Features a completely rewritten chapter covering the importance of packaging which is enhanced through 3D printing All of this against the impact on speed to market Filled with unique viewpoints of the business from those who really know and a plethora of new information Accelerating New Food Product Design and Development Second Edition will be of great interest to all professionals engaged in new food product design and development Business Mexico ,2000 The David Suzuki Reader David Suzuki, 2009-07-01 David Suzuki s collected writings on science nature technology economics politics and the connectedness of all things The David Suzuki Reader brings together for the first time the scientific and philosophical thought of North America's leading environmentalist Drawing from Suzuki's published and unpublished writings this collection reveals the underlying themes that have informed his work for over four decades In these incisive and provocative essays Suzuki explores the limits of knowledge and the connectedness of all things looks unflinchingly at the destructive forces of globalization political shortsightedness and greed cautions against blind faith in science technology politics and

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<u>International Trade Reporter</u>,1967 **Press Summary - Illinois Information Service** Illinois Information Service,2003-08 <u>Outlook</u>,2004 **India Today International**,2000-10 **Venture**,1987 **India Today**,1999 **New Scientist**,1998

The book delves into Answers For Gizmo Food Chain. Answers For Gizmo Food Chain is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and indepth insights into Answers For Gizmo Food Chain, encompassing both the fundamentals and more intricate discussions.

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