

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?

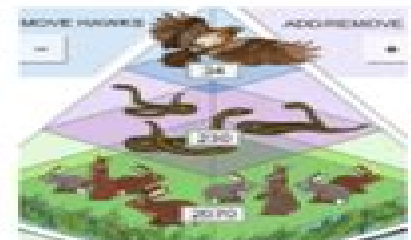
Hawks, snakes, and rabbits

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.

Food Chain Gizmo Answers

SJ Ball



Food Chain Gizmo Answers:

Autonomous Systems: Developments and Trends Herwig Unger, Kyandoghere Kyamaky, Janusz Kacprzyk, 2011-11-22 The Workshops on Autonomous Systems emanated from a gathering with the doctoral students of just three chairs at Fernuniversit t in Hagen which we organise twice per year for a number of years now Their purpose is to discuss on going research and to create a community spirit Furthermore they serve as a means of structuring the students research processes The workshop has grown and matured in several respects The doctoral students presenting their work do not come from a single university anymore but from three Besides them and their supervisors also other scientists became interested in the event and contribute to its programme Following the model of Advanced Study Institutes they are available on the premises for relaxed informal discussions outside the formal sessions Finally with the co sponsorship of Gesellschaft f r Informatik the German Computer Society and this surprisingly comprehensive volume of contributions published by Springer Verlag the workshop turned into a visible scientific event

Harlequin Blaze March 2016 Box Set Candace Havens, Kate Hoffmann, Daire St. Denis, Kelli Ireland, 2016-03-01 Harlequin Blaze brings you four new redhot reads for one great price available now This Harlequin Blaze bundle includes HER SEXY MARINE VALENTINE Uniformly Hot by Candace Havens To get past Valentine s Day new friends Brody Williams and Marigold McGuire are pretending they re in love But their burninghot chemistry means the Marine and the interior designer s makebelieve is quickly becoming a supersexy reality COMPROMISING POSITIONS The Wrong Bed by Kate Hoffmann One bed Two owners Sam Blackstone and Amelia Sheffield are willing to play dirty to get what they want But at the end of the day will that be the bed or each other SWEET SEDUCTION by Daire St Denis When Daisy Sinclair finds out the man she spent the night with is her exhusband s new lawyer she flips Is Jamie Forsythe in on helping steal her family bakery Or was their sweet seduction the real thing COWBOY STRONG Wild Western Heat by Kelli Ireland Tyson Covington and Mackenzie Malone were rivals with benefits But when Ty is forced to put his future in Kenzie s hands he has to do something more dangerous than loving the enemy he has to trust her Look for four new sexy steamy stories every month from Harlequin Blaze Join HarlequinMyRewards com to earn FREE books and more Earn points for all your Harlequin purchases from wherever you shop The Best of Technology Writing 2007 Steven Levy, 2007 Offering a collection as imaginative and compelling as its dynamic subject The Best of Technology Writing 2007 captures the versatility and verve of technology writing today These essays explore a wide range of intriguing topics from the online habits of urban moms to the digital future of movie production **Boating** ,1996-07 **Dps** ,

Cowboy Strong Kelli Ireland, 2016-03-01 Going Down Fighting Ty Covington likes to keep things as uncomplicated as possible By day all that matters to him is his horse and winning in the rodeo ring At night all he wants is a deliciously hot no strings affair with his rival Kenzie Malone Then everything changes in one heart stopping split second The accident should have killed both Ty and his horse Instead they re both on the road to a hard recovery but only thanks to Kenzie s family

connections and fortune Which means he owes her He owes a woman who is both everything he despises and his deepest desire As need hungry and demanding takes them both over Ty knows that this time uncomplicated isn't an option And this cowboy always pays his debts

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

Stand Together or Starve Alone Mark Winne, 2017-11-16 The United States one of the world's wealthiest and resource richest nations has multiple food related problems declining food quality due to industrialization of its production obesity across all age groups and a surprisingly large number of households suffering from food insecurity These issues threaten to shorten the lives of many and significantly reduce the quality of life for millions of others This book explores the root causes of food related problems in the 20th and 21st centuries and explains why collective impact the social form of working together for a common goal needs to be employed to reach a successful resolution to hunger obesity and the challenges of the industrial food system Authored by Mark Winne a 45 year food activist the book begins with background information about the evolution of the U S food movement since the 1960s that documents its incredible growth and variety of interests organizations and sectors The subsequent sections demonstrate how these divergent interests have created a lack of unity and deterred real change and improvement Through examples from specific cities and states as well as a discussion of group dynamics and coalition building methods readers come away with an understanding of a complicated topic and grasp the potential of a number of strategies for creating more cohesion within the food movement and realizing meaningful improvements in our food system for current and future generations

The Burned Spy K.A. Krantz, 2018-01-30 Gods Always ready to screw you When Bix the Gatekeeper is summoned from exile a hundred and seventy years early by the goddess of the Norse Under World the former Dark Ops agent knows there's a catch On the surface the terms of the deal are simple Someone attacked the pantheon's ambassador to the Mid Worlds and left the ambassador in a coma In exchange for early parole Bix must identify the perpetrator and drag their soul to Hel It'd be a sweet contract if not for the details The ambassador is Bix's ex girlfriend the lead suspect is the key witness from Bix's trial and the organization leading the official investigation is the same intelligence guild that disavowed Bix when a covert op went pear shaped Undeterred Bix returns to her old stomping grounds where clues in the smoldering woods of Centralia Pennsylvania lead to the waterfront of Washington DC and Worlds beyond Once valued for her skills creating passageways as small as a capillary or as large as a continent Bix's success now depends on the relationships she was forced to abandon As

she squares off against friends who betrayed her and enemies keen to destroy her Bix follows a trail of secrets torture and treason that leads to the very superpowers who banished her With her freedom on the line and revenge within reach this highly trained operative will take on Fates dragons angels and gods to get exactly what she wants Hel hath no fury like a burned spy **Research Methods for Anthropological Studies of Food and Nutrition** Janet Chrzan,John

Brett,2017-02-01 The dramatic increase in all things food in popular and academic fields during the last two decades has generated a diverse and dynamic set of approaches for understanding the complex relationships and interactions that determine how people eat and how diet affects culture These volumes offer a comprehensive reference for students and established scholars interested in food and nutrition research in Nutritional and Biological Anthropology Archaeology Socio Cultural and Linguistic Anthropology Food Studies and Applied Public Health **Home on the Strange** Susan

Lundy,2021-05-25 A funny heart warming ode to motherhood written by an award winning journalist and humour columnist For Susan Lundy motherhood began when she moved into her boyfriend s Salt Spring Island home at the age of twenty one Her new living arrangement came with furniture a pair of kids and a biting gerbil named Quasimodo Susan was a career oriented budding journalist eager to write her way to fame and fortune Becoming a mom was not part of her plan at least not yet But after surveying her new domicile with quiet horror at first she grew into her new role discarding many of the lessons her mother had given her about keeping house and inventing her own rules as she went along By the time her two daughters were born Susan had already fallen deeply in love with motherhood Moreover she chronicled her family s topsy turvy Gulf Island life in a collection of popular newspaper and magazine columns Home on the Strange follows Susan s journey from pregnancy to parenthood career milestones to birds and bees talks separation to new love at mid life and cross country road trips to empty nesting during a global pandemic Charming poignant and frequently hilarious this is the perfect book for mothers or moms to be at any stage of their journey Food Packaging Gordon L. Robertson,2016-04-19 This book presents

an integrated approach to understanding the principles underlying food packaging and their applications This edition includes new and expanded coverage of biobased packaging and bionanocomposites nanotechnology applications including nanoclays metallization and atomic layer deposition shelf life design analysis and estimation safety and legislative aspects of packaging including public interest in food contact materials such as BPA and phthalates life cycle assessment and sustainability A new chapter addresses food packaging closures and sealing systems including closures for plastic and composite containers and peelable seals **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

The Oxford Companion to Sugar and Sweets ,2015-04-01 A sweet tooth is a powerful thing Babies everywhere seem to smile when tasting sweetness for the first time a trait inherited perhaps from our ancestors who foraged for sweet foods that were generally safer to eat than their bitter counterparts But the science of sweet is only the beginning of a fascinating story because it is not basic human need or simple biological impulse that prompts us to decorate elaborate wedding cakes scoop ice cream into a cone or drop sugar cubes into coffee These are matters of culture and aesthetics of history and society and we might ask many other questions Why do sweets feature so prominently in children s literature When was sugar called a spice And how did chocolate evolve from an ancient drink to a modern candy bar The Oxford Companion to Sugar and Sweets explores these questions and more through the collective knowledge of 265 expert contributors from food historians to chemists restaurateurs to cookbook writers neuroscientists to pastry chefs The Companion takes readers around the globe and throughout time affording glimpses deep into the brain as well as stratospheric flights into the world of sugar crafted fantasies More than just a compendium of pastries candies ices preserves and confections this reference work reveals how the human proclivity for sweet has brought richness to our language our art and of course our gastronomy In nearly 600 entries beginning with la mode and ending with the Italian trifle known as zuppa inglese the Companion traces sugar s journey from a rare luxury to a ubiquitous commodity In between readers will learn about numerous sweeteners as well known as agave nectar and as obscure as castoreum or beaver extract the evolution of the dessert course the production of chocolate and the neurological psychological and cultural responses to sweetness The Companion also delves into the darker side of sugar from its ties to colonialism and slavery to its addictive qualities Celebrating sugar while acknowledging its complex history The Oxford Companion to Sugar and Sweets is the definitive guide to one of humankind s greatest sources of pleasure Like kids in a candy shop fans of sugar and aren t we all will enjoy perusing the wondrous variety to be found in this volume

Business Mexico ,2000 **A Beginner's Guide To A Successful Career** David A Bragen,2004-05 Section One How to Start Your First Job with Twenty Years Experience describes some of the hidden challenges that face everyone during their first venture into the trenches of the global business community Being aware of these challenges and developing an action plan to address them will help you to identify and solve problems before they become mistakes In Section Two Real Basic Street Smarts the author presents the ABCs of success including tips on travel office politics entertainment and 23 other topics critical to your development as a top notch business professional For those who have just been promoted into management Section Three Duplicity in Action What s Your Management Style is the perfect introductory primer on a variety of management issues chief among them developing your management style The tips and suggestions presented here will help you to feel comfortable in your expanded role and to build a highly productive motivated team Section Four By George He Can Sell Ice to an Eskimo is a step by step overview of

the sales process You will learn how to get your points across build a consensus agreement and close the deal This information is valuable for everyone in both sales and non sales positions **The Fishing Sourcebook** Steven A. Griffin,1995-12 Troll the information packed pages for advice and direction on fishing methods equipment organizations and the latest fishing products and gadgets **Dawn of Legacy** Lawrence Davis,2023-06-06 A wizard turned private security agent takes on crime in Cleveland in the conclusion to The Monsters and Men urban fantasy trilogy Unexpected crucibles gut wrenching loss and time in prison The last few years have not been kind to Janzen Robinson His tenure as the unelected Champion of Cleveland was rough but it s hard not to catch glimpses of hope as tides of change have rippled throughout the city Now out of prison the Artificer is surprised to see just how much his mission and influence have taken root Full Circle Protection grew from being an operation run out of a beatdown truck to needing a fully functional office Their ragtag crew of castaways are only a uniform away from seeming professional And all that ugly that went bump in the night It began to see that there are no easy meals in the land of Clev This newfound order is put to the test though as a new kind of enemy emerges launching an attack that isn t motivated by old vendettas or orchestrated by some secret manipulator This is an assault that threatens to blur the lines between this world and the sleepy mask it wears and to take not only their lives but the world Balance with it The Monsters And Men Trilogy by Lawrence Davis is fast paced heart pounding urban fantasy at its best and no one will see this twist coming Praise for Blunt Force Magic book one of the Monsters and Men trilogy A modern fantasy with a touch of noir a dash of detective thriller and a sprinkling of humor throughout Steve Jackson New York Times bestselling author of Monster **Working Mother** ,2003-11 The magazine that helps career moms balance their personal and professional lives Bad Samaritan Lyon Bell,2018-12-11 In March 1990 13 works of art then valued at over 300 million were stolen from the Isabella Stewart Gardner Museum in Boston Massachusetts by thieves who gained entry posing as police officers The robbery gained worldwide attention and speculation was rife as to who could have carried out this audacious heist The robbers were never identified although the FBI suspected an organised crime syndicate based in New England A reward of 10 million for information leading to recovery of the lost masterpieces remains unclaimed In September 2015 June Harper is kidnapped from Massachusetts General Hospital where she is personal assistant to Megan Anderson the chief pharmacist The investigation is led by FBI special agents Ruth Rowland and Lawrence Brooks The main problem in identifying the perpetrator is that there is no obvious motive for the abduction the case becomes even more complicated when June s husband Ryan is murdered a few days later Although separated by 25 years these three crimes robbery kidnap murder are linked But how

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