

## 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?

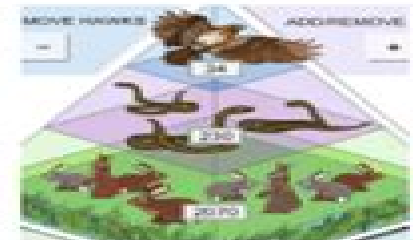
Hawks, snakes, and rabbits

### 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.

# Answers For Gizmo Student Exploration Sheet

**J Rink**



## Answers For Gizmo Student Exploration Sheet

Forty Studies that Changed Psychology Roger R. Hock, 2005  
1 Biology and Human Behavior One Brain or Two Gazzaniga M S 1967 The split brain in man  
More Experience Bigger Brain Rosenzweig M R Bennett E L The Many Triandis H Bontempo R Villareal M Asai M Lucca N  
1988 Individualism and collectivism Cross cultural perspectives on self ingroup relationships  
8 Psychopathology Who s Crazy Here Anyway Rosenhan D L 1973 On Being sane in insane places  
Learning to Be Depressed Seligman M E P Maier S F 1967 Failure to escape traumatic shock  
You re Getting Defensive Again Freud A 1946 The ego and mechanisms of defense  
Crowding into the Behavioral Sink Calhoun J B 1962 Population density and social pathology  
9 Psychotherapy Choosing Your Psychotherapist Smith M L Glass G V 1977 Meta analysis of  
psychotherapy outcome studies Relaxing Your Fears Away Wolpe J 1961 The systematic desensitization of neuroses  
Projections of Who You Are Rorschach H 1942 Psychodiagnostics A diagnostic test based on perception  
Picture This Murray H A 1938 Explorations in personality  
10 Social Psychology Not Practicing What You Preach LaPiere R T 1934 Attitudes and actions  
The Power of Conformity Asch S E 1955 Opinions and social pressure To Help or Not to Help  
Darley J M Latan B 1968 Bystander intervention in emergencies Diffusion of responsibility  
Obey at Any Cost Milgram S 1963 Behavioral study of obedience

*Using Technology with Classroom Instruction That Works* Howard Pitler, Elizabeth R. Hubbell, Matt Kuhn, 2012-08-02  
Technology is ubiquitous and its potential to transform learning is immense The first edition of  
*Using Technology with Classroom Instruction That Works* answered some vital questions about 21st  
century teaching and learning What are the best ways to incorporate technology into the  
curriculum What kinds of technology will best support particular learning tasks and objectives  
How does a teacher ensure that technology use will enhance instruction rather than distract from  
it This revised and updated second edition of that best selling book provides fresh answers to  
these critical questions taking into account the enormous technological advances that have  
occurred since the first edition was published including the proliferation of social networks  
mobile devices and web based multimedia tools It also builds on the up to date research and  
instructional planning framework featured in the new edition of *Classroom Instruction That  
Works* outlining the most appropriate technology applications and resources for all nine  
categories of effective instructional strategies Setting objectives and providing feedback  
Reinforcing effort and providing recognition Cooperative learning Cues questions and advance  
organizers Nonlinguistic representations Summarizing and note taking Assigning homework and  
providing practice Identifying similarities and differences Generating and testing hypotheses  
Each strategy focused chapter features examples across grade levels and subject areas and  
drawn from real life lesson plans and projects of teachers integrating relevant technology in  
the classroom in ways that are engaging and inspiring to students The authors also  
recommend dozens of word processing applications spreadsheet generators educational games  
data collection tools and online resources that can help make lessons more fun more  
challenging and most of all more effective

*The Chicken Qabalah of Rabbi Lamed Ben Clifford* Lon Milo DuQuette, 2010-07-01  
A unique and humorous and also practical approach to the increasingly popular study of  
Qabalah This is a seriously funny book Traditional Qabalistic or Cabalistic or indeed  
Kabbalistic read this book to find out what the difference is we know you ve always  
wondered sources tend to be a bit er dry DuQuette spices up the Qabalah and makes it  
come alive restoring the joy of learning the fundamentals of this admittedly arcane system  
by using simple amusing anecdotes and metaphors This account written pseudonymously  
attributed to a supposed authority allows DuQuette as Rabbi Lamed Ben Clifford to soar to  
outrageous heights and when necessary stand apart from the silliness to highlight the  
golden eggs of Qabalistic wisdom nested therein Sure to be a revelation to those who  
think that learning about the Qabalah needs to be tedious and serious DuQuette shows  
that great truths can be transmitted through the medium of laughter

*Small Wonder* Barbara Kingsolver, 2009-10-13 In twenty two wonderfully articulate essays Barbara Kingsolver raises her voice in praise of nature family literature and the joys of everyday life while examining the genesis of war violence and poverty in our world From the author of *High Tide in Tucson* comes *Small Wonder* a new collection of essays that begins with a parable gleaned from recent news villagers search for a missing infant boy and find him unharmed in the cave of a dangerous bear that has mothered him like one of her own Clearly our understanding of evil needs to be revised What we fear most can save us From this tale Barbara Kingsolver goes on to consider the chasm between the privileged and the poor which she sees as the root cause of violence and war in our time She writes about her attachment to the land to nature and wilderness trees and mountains the place from which she tells her stories Whether worrying about the dangers of genetically engineered food crops or creating opportunities for children to feel useful and competent like growing food for the family's table Kingsolver looks for small wonders where they grow and celebrates them

**Walkaway** Cory Doctorow, 2017-04-25 Kirkus Best Fiction of 2017 From New York Times bestselling author Cory Doctorow an epic tale of revolution love post scarcity and the end of death *Walkaway* is now the best contemporary example I know of its utopia glimpsed after fascinatingly extrapolated revolutionary struggle William Gibson Hubert Vernon Rudolph Clayton Irving Wilson Alva Anton Jeff Harley Timothy Curtis Cleveland Cecil Ollie Edmund Eli Wiley Marvin Ellis Espinoza known to his friends as Hubert Etc was too old to be at that Communist party But after watching the breakdown of modern society he really has no where left to be except amongst the dregs of disaffected youth who party all night and heap scorn on the sheep they see on the morning commute After falling in with Natalie an ultra rich heiress trying to escape the clutches of her repressive father the two decide to give up fully on formal society and walk away After all now that anyone can design and print the basic necessities of life food clothing shelter from a computer there seems to be little reason to toil within the system It's still a dangerous world out there the empty lands wrecked by climate change dead cities hollowed out by industrial flight shadows hiding predators animal and human alike Still when the initial pioneer walkaways flourish more people join them Then the walkaways discover the one thing the ultra rich have never been able to buy how to beat death Now it's war a war that will turn the world upside down Fascinating moving and darkly humorous *Walkaway* is a multi generation SF thriller about the wrenching changes of the next hundred years and the very human people who will live their consequences At the Publisher's request this title is being sold without Digital Rights Management Software DRM applied

**Actionable Gamification** Yu-kai Chou,2019-12-03 Learn all about implementing a good gamification design into your products workplace and lifestyle Key FeaturesExplore what makes a game fun and engagingGain insight into the Octalysis Framework and its applicationsDiscover the potential of the Core Drives of gamification through real world scenariosBook Description Effective gamification is a combination of game design game dynamics user experience and ROI driving business implementations This book explores the interplay between these disciplines and captures the core principles that contribute to a good gamification design The book starts with an overview of the Octalysis Framework and the 8 Core Drives that can be used to build strategies around the various systems that make games engaging As the book progresses each chapter delves deep into a Core Drive explaining its design and how it should be used Finally to apply all the concepts and techniques that you learn throughout the book contains a brief showcase of using the Octalysis Framework to design a project experience from scratch After reading this book you ll have the knowledge and skills to enable the widespread adoption of good gamification and human focused design in all types of industries What you will learnDiscover ways to use gamification techniques in real world situationsDesign fun engaging and rewarding experiences with OctalysisUnderstand what gamification means and how to categorize itLeverage the power of different Core Drives in your applicationsExplore how Left Brain and Right Brain Core Drives differ in motivation and design methodologiesExamine the fascinating intricacies of White Hat and Black Hat Core DrivesWho this book is for Anyone who wants to implement gamification principles and techniques into their products workplace and lifestyle will find this book useful

**Spectrum Spelling, Grade 4** ,2014-08-15 Give your fourth grader a fun filled way to build and reinforce spelling skills Spectrum Spelling for grade 4 provides progressive lessons in prefixes suffixes vowel sounds compound words easily misspelled words and dictionary skills This exciting language arts workbook encourages children to explore spelling with brainteasers puzzles and more Don t let your child s spelling skills depend on spellcheck and autocorrect Make sure they have the knowledge and skills to choose apply and spell words with confidence and without assistance from digital sources Complete with a speller s dictionary a proofreader s guide and an answer key Spectrum Spelling offers the perfect way to help children strengthen this important language arts skill

Uncovering Student Ideas in Life Science Page Keeley,2011 Author Page Keeley continues to provide KOCO12 teachers with her highly usable and popular formula for uncovering and addressing the preconceptions that students bring to the classroomOCOthe formative assessment probeOCOin this first book devoted exclusively to life science in her Uncovering Student Ideas in Science series Keeley addresses the topics of life and its diversity structure and function life processes and needs of living things ecosystems and change reproduction life cycles and heredity and human biology

<https://books.google.com/books?id=PEZdDwAAQBAJ&pri...> ,

Scott Foresman Science. [Grade 6]: Graphic organizer and test talk transparencies (31 transparencies) Timothy Cooney,Scott, Foresman and Company,2006 Set of materials for classroom use in Grade 6 science curriculum

*Ilium* Dan Simmons,2009-10-13 The Trojan War rages at the foot of Olympos Mons on Mars observed and influenced from on high by Zeus and his immortal family and twenty first century professor Thomas Hockenberry is there to play a role in the insidious private wars of vengeful gods and goddesses On Earth a small band of the few remaining humans pursues a lost past and devastating truth as four sentient machines depart from Jovian space to investigate perhaps terminate the potentially catastrophic emissions emanating from a mountaintop miles above the terraformed surface of the Red Planet

**Teaching and Learning Online** Franklin S. Allaire, Jennifer E. Killham, 2023-01-01 Science is unique among the disciplines since it is inherently hands on. However, the hands on nature of science instruction also makes it uniquely challenging when teaching in virtual environments. How do we as science teachers deliver high quality experiences to secondary students in an online environment that leads to age grade level appropriate science content knowledge and literacy but also collaborative experiences in the inquiry process and the nature of science? The expansion of online environments for education poses logistical and pedagogical challenges for early childhood and elementary science teachers and early learners. Despite digital media becoming more available and ubiquitous and increases in online spaces for teaching and learning, Killham et al 2014, Wong et al 2018, PreK-12 teachers consistently report feeling underprepared or overwhelmed by online learning environments. Molnar et al 2021, Seaman et al 2018. This is coupled with persistent challenges related to elementary teachers' lack of confidence and low science teaching self-efficacy. Brigido Borrachero Bermejo, Gunning, Duran, Duran 2004. Ideal for undergraduate teacher candidates, graduate students, teacher educators, classroom teachers, parents, and administrators, this book addresses why and how teachers use online environments to teach science content and work with elementary students through a research-based foundation.

**The Beak of the Finch** Jonathan Weiner, 2014-05-14 PULITZER PRIZE WINNER A dramatic story of groundbreaking scientific research of Darwin's discovery of evolution that sparks not just the intellect but the imagination. Washington Post Book World Admirable and much needed. Weiner's triumph is to reveal how evolution and science work and to let them speak clearly for themselves. The New York Times Book Review: On a desert island in the heart of the Galapagos archipelago where Darwin received his first inklings of the theory of evolution, two scientists, Peter and Rosemary Grant, have spent twenty years proving that Darwin did not know the strength of his own theory. For among the finches of Daphne Major, natural selection is neither rare nor slow; it is taking place by the hour, and we can watch it. In this remarkable story, Jonathan Weiner follows these scientists as they watch Darwin's finches and come up with a new understanding of life itself. *The Beak of the Finch* is an elegantly written and compelling masterpiece of theory and explication in the tradition of Stephen Jay Gould.

**Essentials of Metaheuristics (Second Edition)** Sean Luke, 2012-12-20 Interested in the Genetic Algorithm, Simulated Annealing, Ant Colony Optimization, and Evolutionary Algorithms? *Essentials of Metaheuristics* covers these and other metaheuristic algorithms and is intended for undergraduate students, programmers, and non-experts. The book covers a wide range of algorithms, representations, selection, and modification operators and related topics and includes 71 figures and 135 algorithms, great and small. Algorithms include Gradient Ascent, techniques Hill Climbing variants, Simulated Annealing, Tabu Search variants, Iterated Local Search, Evolution Strategies, the Genetic Algorithm, the Steady State Genetic Algorithm, Differential Evolution, Particle Swarm Optimization, Genetic Programming variants, One and Two Population, Competitive Coevolution, N Population Cooperative Coevolution, Implicit Fitness Sharing, Deterministic Crowding, NSGA-II, SPEA2, GRASP, Ant Colony Optimization variants, Guided Local Search, LEM, PBIL, UMDA, cGA, BOA, SAMUEL, ZCS, XCS, and XCSF.

**Excel Models for Business and Operations Management** John F. Barlow,2005 Market\_Desc Business Studies Accounting Finance and Operations Management courses that offer practical computing skills as an integral part of the course syllabus Managers and Analysts who want to develop their model building skills Special Features The use of spreadsheet models in finance business and management decision making is on the increase Other books on spreadsheet modeling tend to focus on applied management science and complex financial models which restricts the market This new edition will follow the active learning approach which focuses on the practical aspect of how to build computer models while summarizing the mathematical logic as to why the model is so constructed A website will accompany the text containing hands on development models to enable the reader to put theory into practice A new chapter entitled Investment Analysis Models will be added to widen the appeal to students in finance and accounting All references to Excel including the Excel refresher notes in the appendix have been upgraded to reflect the latest version of Microsoft Office e g Excel 2003 and Windows XP Job sequencing including a VBA routine for Johnson s Rule Multiplicative Holt Winter s model About The Book This text adopts an active learning approach with the emphasis being placed on the utilization of software tools to help build models The learn by example approach used throughout the book guides the user through the complexities of model building Every day examples from business and operations management form the basis of the book s hands on development models that help the reader to appreciate Excel s power and flexibility

*The Gizmo* Paul Jennings,1994 Stephen s bra is starting to slip His pantyhose are sagging His knickers keep falling down Oh the shame of it He stole a gizmo and now it s paying him back Another crazy yarn from Australia s master of madness The Paul Jennings phenomenon began with the publication of *Unrealin* 1985 Since then his stories have been devoured all around the world

*The Shockwave Rider* John Brunner,2011-09-29 He was the most dangerous fugitive alive but he didn t exist Nickie Haflinger had lived a score of lifetimes but technically he didn t exist He was a fugitive from Tarnover the high powered government think tank that had educated him First he had broken his identity code then he escaped Now he had to find a way to restore sanity and personal freedom to the computerised masses and to save a world tottering on the brink of disaster He didn t care how he did it but the government did That s when his Tarnover teachers got him back in their labs and Nickie Haflinger was set up for a whole new education First published in 1975

**Supply Chain Management** Nada R. Sanders,2017-10-19 Supply chain management rapidly advancing and growing ever more important in the global business climate requires an intense understanding of both underlying principles and practical techniques Including both a broad overview of supply chain management and real world examples of SCM in companies ranging from small to large this book provides students with both the foundational material required to understand the subject matter and practical tips that demonstrate how the latest techniques are being applied Spanning functional boundaries this well regarded book is now in its second edition and has quickly become a standard course text at many universities This newest edition continues to provide a balanced integrative and business oriented viewpoint of the material and deeply explores how SCM is intertwined with other organizational functions New material has been added to address the importance of big data analytics in SCM as well as other technological advances such as 3 D printing cloud computing machine learning driverless vehicles the Internet of Things RFID and others

*Standard Theory Workbook* Milady Publishing Company,Jack Chaplin,1994-05 This workbook directly follows the theory information found in the student textbook The workbook provides detailed interactive exercises including fill in the blanks word review exercises matching and final review examinations designed to increase student comprehension of theoretical aspects of cosmetology

**MathLinks 9** Bruce McAskil,2009

The Top Books of the Year Answers For Gizmo Student Exploration Sheet The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt 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 succeed. 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 captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling 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 captivating 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 masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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