

Biology

GIZMO - Natural Selection

60 Points

Directions: Navigate to explorelearning.com, log in, and click on Natural Selection Gizmo.

Vocabulary: biological evolution, camouflage, Industrial Revolution, lichen, morph, natural selection, peppered moth

Prior Knowledge Questions (Do these **BEFORE** using the Gizmo.)

The **peppered moth** (*Biston betularia*) is a common moth found in Europe, Asia, and North America. It is commonly found in two forms, or **morphs**: a dark morph and a light, speckled morph. Birds are a frequent predator of the peppered moth.



1. Which morph do you think would be easier to see on a dark tree trunk? (1)

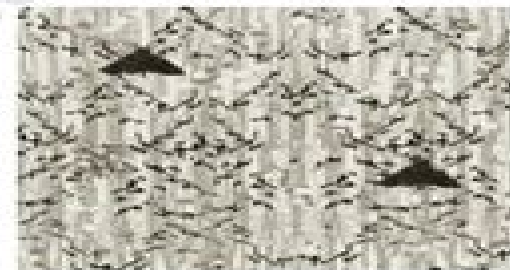
A Light Speckled Moth

2. Which morph do you think would be easier to see on a light tree trunk? (1)

A Dark Speckled Moth

Gizmo Warm-up

The Natural Selection Gizmo allows you to play the role of a bird feeding on peppered moths. The initial population of 40 moths is scattered over 20 tree trunks. Click on moths to capture them. Click the **Next tree** button (or the **spacebar** on your keyboard) to advance to the next tree.



3. Check that **LIGHT TREES** is selected. Click **Play** (▶), and hunt moths for one year.

- A. How many dark moths did you capture? (1)

4

- B. How many light moths did you capture? (1)

2

- C. **Camouflage** is coloring or patterns that help an organism to blend in with the background. Which type of moth is better camouflaged on light bark? (1)

On the light bark, the light speckled moth is more camouflaged.

Natural Selection Gizmo Answer Sheet

Kevin Shaffer

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Kevin Shaffer.

Natural Selection Gizmo Answer Sheet:

It's a Jungle in There David A. Rosenbaum, 2014-02-03 The saying It's a jungle out there refers to a competitive environment in which you'd better hone your skills if you hope to survive And you'd better do what you can to keep a roof over your head food in your belly a leaf on your loins and a mate who'll help pass on your genes to the next generation of jungle Jims and Janes Distinguished professor and cognitive psychologist David Rosenbaum takes this metaphor of surviving in the wild and applies it to the competitive arena within the brain He argues that the overarching theory of biology Darwin's theory should be the overarching theory of cognitive psychology the science of mental functioning He explores this new and intriguing idea by showing how neural elements compete and cooperate in a kind of inner jungle where only the fittest survive Competition within your brain does as much to shape who you are as the physical and figurative competition you face externally Just as the jungle night seethes with noisy creatures beckoning their mates issuing their warnings and settling their arguments you might have trouble falling asleep at night because the thoughts in your head are fighting for their chance at survival Rosenbaum's pursuit of this bold idea explains why we are shaped into who we are for better or worse because we are the hosts of inner battlefields Written in a light hearted tone and with reference to hypothetical neural creatures making their way in a tough environment Rosenbaum makes cognitive psychology and his theory easy to understand and exciting to ponder Rather than rely on the series of disconnected phenomena and collection of curiosities that often constitute cognitive psychology It's a Jungle in There provides a fascinating way to place all cognitive phenomena under one flourishing tree PC Mag, 1987-08 PCMag.com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology *Popular Photography*, 1982-03 **PC**, 1987 **Billboard**, 1951-10-13 In its 114th year Billboard remains the world's premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends **India Today International**, 2000-10 **PC Magazine**, 1987 *IPTVisions*, 2000 **F & S Index United States Annual**, 2006 **Popular Photography**, 1982 **Natural Selection**, **Evolution Natural Selection** Balaji Sampath, Ravishankar, Marimuthu, 2004 Natural Selection 71 Success Secrets - 71 Most Asked Questions on Natural Selection - What You Need to Know Kevin Shaffer, 2014-10-01 The best Natural selection Guide you will ever read There has never been a Natural selection Guide like this It contains 71 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Natural selection A quick look inside of some of the subjects covered The Genetical Theory of

Natural Selection Genetics and the Origin of Species Natural selection and speciation Evolution of mammalian auditory ossicles Natural selection Thomas Nagel Natural selection and consciousness Natural Selection disambiguation Adaptation and Natural Selection Natural selection Information and systems theory Sexual competition Sexual selection as a toolkit of natural selection Adaptation and Natural Selection Adaption and Selection Natural selection Selection and genetic variation Natural selection Emergence of natural selection The Genetical Theory of Natural Selection Contents Alfred Russel Wallace Differences between Darwin s and Wallace s ideas on natural selection The Genetical Theory of Natural Selection Editions On the Origin of Species by Means of Natural Selection or the Preservation of Favoured Races in the Struggle for Life Summary of Darwin s theory Natural selection General principles Psychological adaptation Natural Selection as Adaptation Deceased Natural selection Evolution Natural selection Darwin s Dangerous Idea Natural selection as an algorithm Natural selection Social and psychological theory Natural selection Directionality of selection Natural selection Darwin s theory Genetics Natural selection and evolution and much more **The Statistics of Natural Selection on Animal Populations** Bryan Manly,2014-01-15

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Table of Contents Natural Selection Gizmo Answer Sheet

1. Understanding the eBook Natural Selection Gizmo Answer Sheet
 - The Rise of Digital Reading Natural Selection Gizmo Answer Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Natural Selection Gizmo Answer Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Natural Selection Gizmo Answer Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Natural Selection Gizmo Answer Sheet
 - Personalized Recommendations
 - Natural Selection Gizmo Answer Sheet User Reviews and Ratings
 - Natural Selection Gizmo Answer Sheet and Bestseller Lists
5. Accessing Natural Selection Gizmo Answer Sheet Free and Paid eBooks
 - Natural Selection Gizmo Answer Sheet Public Domain eBooks

- Natural Selection Gizmo Answer Sheet eBook Subscription Services
- Natural Selection Gizmo Answer Sheet Budget-Friendly Options
- 6. Navigating Natural Selection Gizmo Answer Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Natural Selection Gizmo Answer Sheet Compatibility with Devices
 - Natural Selection Gizmo Answer Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Natural Selection Gizmo Answer Sheet
 - Highlighting and Note-Taking Natural Selection Gizmo Answer Sheet
 - Interactive Elements Natural Selection Gizmo Answer Sheet
- 8. Staying Engaged with Natural Selection Gizmo Answer Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Natural Selection Gizmo Answer Sheet
- 9. Balancing eBooks and Physical Books Natural Selection Gizmo Answer Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Natural Selection Gizmo Answer Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Natural Selection Gizmo Answer Sheet
 - Setting Reading Goals Natural Selection Gizmo Answer Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Natural Selection Gizmo Answer Sheet
 - Fact-Checking eBook Content of Natural Selection Gizmo Answer Sheet
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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