

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 (Let's check what you know about this 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 game of natural selection. 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.

Why is a dark moth easier to camouflage on light bark? (1)

On a light tree trunk, the light speckled moth is more camouflaged.



Moth Gizmo Answer Key

S Ashworth

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

Moth Gizmo Answer Key:

e-Citizens Alfredo M. Ronchi, 2019-03-06 This book explores a society currently being transformed by the influence of advanced information technology and provides insights into the main technological and human issues and a holistic approach to inclusion security safety and last but not least privacy and freedom of expression Its main aim is to bridge the gap between technological solutions their successful implementation and the fruitful utilization of the main set of e Services offered by governments private institutions and commercial companies Today various parameters actively influence e Services success or failure cultural aspects organisational issues bureaucracy and workflow infrastructure and technology in general user habits literacy capacity or merely interaction design The purpose of this book is to help in outlining and understanding a realistic scenario of what we can term e Citizenry It identifies today s citizen who is surrounded by an abundance of digital services as an e Citizen and explores the transition from their traditional role and behaviour to new ones The respective chapters presented here will lay the foundation of the technological and social environment in which this societal transition takes place With its balanced humanistic and technological approach the book mainly targets public authorities decision makers stakeholders solution developers and graduate students

Luxembourg Tim Skelton, 2024-06-24 This new thoroughly updated fifth edition of Bradt s Luxembourg remains the only comprehensive English language guidebook to focus exclusively on this small but fascinating European country where public transport is now entirely free Reviews of the best places to stay and eat in all price categories from luxury to budget sit alongside information about every museum and significant place of interest plus in depth guides to local food drink language and culture and advice on the best cycling and hiking trails many of the latter having been personally explored by the author This diminutive European state punches above its weight and is celebrated for everything from its early pioneering of commercial broadcasting with Radio Luxembourg to the fact that it has won the Eurovision Song Contest five times while Luxembourg riders have won the Tour de France five times too A foodie paradise the country offers its own unique cuisine a fusion of French and German influences and perhaps the densest collection of Michelin starred restaurants in the world Short distances and easy travelling whether by public transport or driving mean a lot can be covered in a relatively brief visit from sixty medieval castles to plentiful opportunities for outdoors enthusiasts including long distance international walking trails linking with the Belgian Ardennes and German Eifel Military history is also covered notably the sites of the Battle of the Ardennes and Hamm American Military Cemetery the burial place of General Patton as are details of the most popular sites such as Vianden and Luxembourg City s Museum of Modern Art New for this edition are the Royal Hamilius complex in Luxembourg City designed by architect Sir Norman Foster the post renovation UNESCO listed P trusse casemates infrastructure upgrades such as extensions to the City s tram line and ever easier train and aeroplane access details on the new cultural and art spaces in Esch sur Alzette a European City of Culture in 2022 new wine related events in the Moselle a new Slate Museum in Haut Martelange and the M llerdall Nature

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Moth Gizmo Answer Key Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Moth Gizmo Answer Key**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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