

Lab: Peppered Moth Simulation

BIOLOGY: CHAPTER 10-PRINCIPLES OF EVOLUTION

Objectives:

- Describe the importance of coloration in avoiding predation
- Relate environmental change to changes in organisms
- Explain how natural selection causes populations to change

Materials

- 8½" x 11" sheet dark background
- 8½" x 11" sheet light background
- Forceps
- Clock with second hand
- 30 light circles (made with hole punch)
- 30 dark circles (made with hole punch)



Purpose: In this lab, you will simulate how predators locate prey in different environments. You will analyze how color affects and organism's ability to survive in certain environments.

Background: The usual form of the peppered moth *Biston betularia* in northern Europe has a light "peppered" pattern of coloration. The moth rests on tree branches and its color pattern **camouflages** it against predatory attack. The camouflage only works against the right background: birds are more likely to eat poorly camouflaged moths, which therefore have a lower **fitness**.

The light coloration of tree branches is mainly caused by lichens that grow there. Smoke pollution in the industrial revolution in the UK killed these lichens near to industrial areas, leaving tree branches black. At about this time, around 1830, a '**melanic**' form of the peppered moth becomes increasingly common in contemporary moth collections. The melanic form is camouflaged on dark tree branches. Through the 19th century, the melanic form increased in frequency until, near industrial regions, it was the normal type of the moth. The increase was almost certainly driven by natural selection.

The moths satisfy all four conditions for natural selection:

- they reproduce;
- their color pattern is inherited;
- there is variation in their color patterns;
- the different forms have different fitnesses.

Before you begin the lab, complete the hypothesis below:

Hypothesis: If the color of the prey matches the background color then

Peppered Moth Virtual Lab Answer Key

Huangqi Zhang



Peppered Moth Virtual Lab Answer Key:

Peppered Moth Virtual Lab Answer Key: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Let's delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year.

Peppered Moth Virtual Lab Answer Key : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's 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 top-selling 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 engaging 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 brilliant and gripping 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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Table of Contents Peppered Moth Virtual Lab Answer Key

1. Understanding the eBook Peppered Moth Virtual Lab Answer Key
 - The Rise of Digital Reading Peppered Moth Virtual Lab Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Peppered Moth Virtual Lab Answer Key
 - 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 Peppered Moth Virtual Lab Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Peppered Moth Virtual Lab Answer Key
 - Personalized Recommendations
 - Peppered Moth Virtual Lab Answer Key User Reviews and Ratings
 - Peppered Moth Virtual Lab Answer Key and Bestseller Lists
5. Accessing Peppered Moth Virtual Lab Answer Key Free and Paid eBooks
 - Peppered Moth Virtual Lab Answer Key Public Domain eBooks
 - Peppered Moth Virtual Lab Answer Key eBook Subscription Services
 - Peppered Moth Virtual Lab Answer Key Budget-Friendly Options
6. Navigating Peppered Moth Virtual Lab Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Peppered Moth Virtual Lab Answer Key Compatibility with Devices
 - Peppered Moth Virtual Lab Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Peppered Moth Virtual Lab Answer Key
 - Highlighting and Note-Taking Peppered Moth Virtual Lab Answer Key
 - Interactive Elements Peppered Moth Virtual Lab Answer Key
8. Staying Engaged with Peppered Moth Virtual Lab Answer Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Peppered Moth Virtual Lab Answer Key
- 9. Balancing eBooks and Physical Books Peppered Moth Virtual Lab Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Peppered Moth Virtual Lab Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Peppered Moth Virtual Lab Answer Key
 - Setting Reading Goals Peppered Moth Virtual Lab Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Peppered Moth Virtual Lab Answer Key
 - Fact-Checking eBook Content of Peppered Moth Virtual Lab Answer Key
 - 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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