

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

KJ Lindholm-Leary



Peppered Moth Virtual Lab:

Embracing the Tune of Expression: An Emotional Symphony within **Peppered Moth Virtual Lab**

In a world used by screens and the ceaseless chatter of instant interaction, the melodic beauty and psychological symphony produced by the published term frequently disappear in to the back ground, eclipsed by the relentless noise and interruptions that permeate our lives. However, set within the pages of **Peppered Moth Virtual Lab** a marvelous fictional value overflowing with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this interesting masterpiece conducts readers on a mental journey, skillfully unraveling the hidden melodies and profound influence resonating within each cautiously crafted phrase. Within the depths of the touching assessment, we will explore the book is key harmonies, analyze their enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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