S. Francisco	Date	The second second
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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:

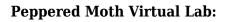
- they reproduce;
- their color pattern is inherited;
- · there is variation in their color patterns;
- the different forms have different fitnesses.

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

R Bogdan



Enjoying the Tune of Term: An Psychological Symphony within Peppered Moth Virtual Lab

In a world eaten by monitors and the ceaseless chatter of instantaneous communication, the melodic splendor and mental symphony created by the published term usually fade in to the back ground, eclipsed by the persistent noise and distractions that permeate our lives. But, nestled within the pages of **Peppered Moth Virtual Lab** a marvelous literary treasure overflowing with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, that captivating masterpiece conducts viewers on a psychological trip, skillfully unraveling the hidden tunes and profound affect resonating within each cautiously crafted phrase. Within the depths with this moving analysis, we will examine the book is key harmonies, analyze their enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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