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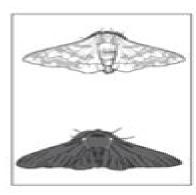
Lab: Peppered Moth Simulation BIOLOGY: CHAPTER 10-PRINCIPLES OF EVOLUTION

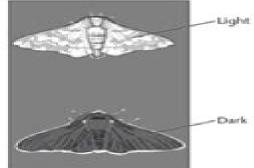
Objectives:

- 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 carmouflaged 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 Lab Answer Key

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Peppered Moth Lab Answer Key:

Enjoying the Beat of Term: An Emotional Symphony within **Peppered Moth Lab Answer Key**

In some sort of consumed by displays and the ceaseless chatter of fast transmission, the melodic elegance and mental symphony produced by the published word often disappear into the backdrop, eclipsed by the persistent sound and disturbances that permeate our lives. Nevertheless, set within the pages of **Peppered Moth Lab Answer Key** a wonderful literary treasure brimming with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, that charming masterpiece conducts visitors on a psychological journey, well unraveling the concealed melodies and profound impact resonating within each cautiously constructed phrase. Within the depths of this touching assessment, we can investigate the book is main harmonies, analyze their enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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