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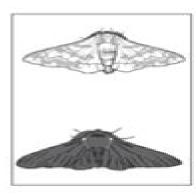
Lab: Peppered Moth Simulation BIOLOGY: CHAPTER 10-PRINCIPLES OF EVOLUTION

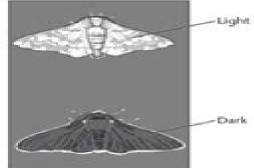
Objectives:

- 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 carnouflaged 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:

Unveiling the Power of Verbal Beauty: An Mental Sojourn through Peppered Moth Lab Answer Key

In some sort of inundated with screens and the cacophony of quick transmission, the profound energy and psychological resonance of verbal artistry frequently fade into obscurity, eclipsed by the regular assault of noise and distractions. Yet, located within the lyrical pages of **Peppered Moth Lab Answer Key**, a charming function of literary elegance that pulses with natural emotions, lies an remarkable trip waiting to be embarked upon. Written with a virtuoso wordsmith, that interesting opus courses readers on a psychological odyssey, gently exposing the latent potential and profound influence stuck within the elaborate web of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is central styles, dissect its interesting writing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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