

# Lab: Peppered Moth Simulation

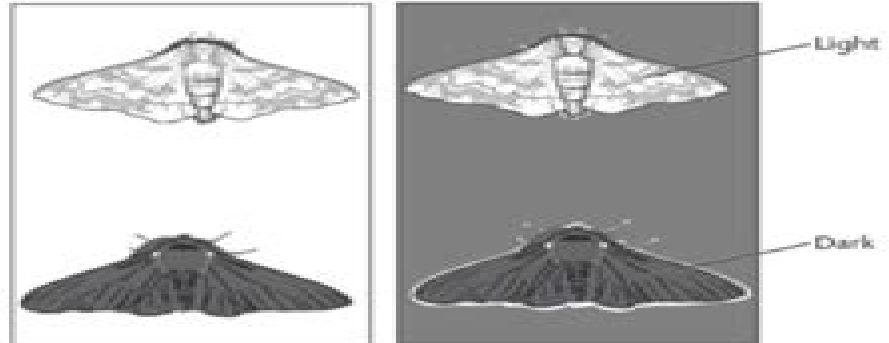
## BIOLOGY: CHAPTER 10-PRINCIPLES OF EVOLUTION

### 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 Lab Answer Key

**A Gutmann**



**Peppered Moth Lab Answer Key:**

**Writing Undergraduate Lab Reports** Christopher S. Lobban, María Schefter, 2017-07-27 Writing clear impactful reports is a crucial skill for science students but few books focus on this area for the undergraduate. Particularly useful for biology students, this text adopts a hands-on approach using example reports and published papers as models to put guidance into practice. An introductory chapter familiarizes undergraduates with the principles of writing science. Two model reports are then developed, walking students through experimental and observational teaching lab reports. The structure and content of the Introduction, Methods and Materials, Results and Discussion are explained together with tips for the title, abstract and references. Students are then guided on how to polish their first draft. The last section of the book analyzes two published papers, helping the reader transition to reporting original research. Clearly and concisely written, this text offers a much-needed lifeline for science students facing science report writing for the first time and for those looking to hone their writing skills.

**Inquiry Skills Development** Holt Rinehart & Winston, 1998-01-27      **The Software Encyclopedia**, 1988

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