

# 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 an 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 Simulation Lab Answer Key

**E Durkheim**



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web pembangunan berwawasan lingkungan hidup sering pula dikemukakan sebagai pembangunan berkelanjutan dengan demikian pentingnya pengelolaan lingkungan hidup sebagai upaya terpadu untuk melestarikan fungsi lingkungan hidup yang

meliputi kebijakan penataan pemanfaatan pengembangan

**konsep pembangunan berkelanjutan tujuan dan indikator kompas com** - Jun 13 2023

web feb 21 2020 kompas com pembangunan berkelanjutan merupakan proses pembangunan yang mengoptimalkan manfaat dari sumber daya dengan pembangunan dalam buku pembangunan berkelanjutan peran dan kontribusi emil salim 2010

karya iwan j azis pembangunan berkelanjutan sering disebut sustainable development

**bab ii pembangunan berkelanjutan unri** - Apr 30 2022

web keberlanjutan lingkungan memelihara sumber daya yang stabil menghindari eksploitasi sumber daya alam dan fungsi penyerapan lingkungan seperti pemeliharaan keanekaragaman hayati stabilitas ruang udara dan fungsi ekosistem lainnya yang tidak termasuk kategori sumber sumber ekonomi