



Peppered Moth Game

Objective: Simulate changes in moth population due to pollution and predation, and observe how species can change over time.

Go to: <https://askabiologist.asu.edu/peppered-moths-game/play.html> and read each section before you play the game, answer the questions as you go.

Peppered Moth

1. Where do peppered moths live? England
2. How do the moth larvae survive predators? They look like a small branch so they camouflage
3. What do the moths do during the winter? They change into cocoons
4. What color is the "typical" version of the moths? light
What color is the "carbonaria" version? black
5. How do adult moths survive predation? by hunting and flying at night and resting in the morning



Natural Selection

6. What was the industrial revolution? Factories were being build and they used coal and oil

7. What was the effect of the change in the color of the moths? The lightest color moths were the most common before the industrial revolution

8. What was the effect of the change in the color of the moths? The dark color moths were the most common after the industrial revolution

9. Why would dark moths have an advantage? They were better camouflaged than the light moths

Dr. Huxford

10. What is an advantage? Being able to survive and reproduce

11. What is an advantage? Being able to survive and reproduce

12. Dr. Huxford predicted that dark moths would have more survival than light moths.

13. Dr. Huxford predicted that dark moths would have more survival than light moths.

14. How did Huxford test his hypothesis? He released moths into a forest and watched what happened

15. How did Huxford determine if moths had changed their color? He counted the number of moths that were eaten

Peppered Moth Answer Key

Michal Rosen-Zvi

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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