



# 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 moth became the most common, dark because of coal and oil

8. What is natural selection? When a trait is passed on to the next generation, it is passed on to the next generation.

9. Why would dark moths have an advantage? Because they are harder to see.

10. What is a mutation?

11. What is an adaptation? When a trait is passed on to the next generation, it is passed on to the next generation.

12. How do scientists use fossils? By looking at the fossils of the peppered moth, they can see the change in the color of the moths.

13. Dr. Huxford predicted that dark moths would have more survival in polluted areas, and light moths would have less survival in unpolluted areas.

14. How did Huxford test his hypothesis? He released moths in a polluted area and a non-polluted area.

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

# Answer Key For Peppered Moth Simulation

**Karin Nielsen-Saines**

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

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