



# 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://phet.colorado.edu/en/simulations/phet-peppered-moths> and read each section before you play the game, answer the questions as you go.

## Peppered Moth

1. Where do peppered moths live? \_\_\_\_\_
2. How do the moth larvae survive predators? \_\_\_\_\_
3. What do the moths do during the winter? \_\_\_\_\_
4. What color is the "typical" version of the moths? \_\_\_\_\_  
What color is the "carbonate" version? \_\_\_\_\_
5. How do adult moths survive predators? \_\_\_\_\_



## Natural Selection

6. What was the industrial revolution? \_\_\_\_\_
7. What was causing the change in the color of the moths? \_\_\_\_\_
8. What is natural selection? \_\_\_\_\_
9. Why would dark moths have an advantage? \_\_\_\_\_

## Dr. Kettlewell

10. What is an entomologist? \_\_\_\_\_
11. How do scientists test theories? \_\_\_\_\_
12. Dr. Kettlewell predicted that clean forests would have \_\_\_\_\_ colored moths,  
and polluted forests would have \_\_\_\_\_ colored moths.
13. How did Kettlewell test his hypothesis? \_\_\_\_\_
14. How did Kettlewell determine if moths lived longer than others? \_\_\_\_\_

# Peppered Moth Simulation Biologycorner Answers

**Patrick Vollmar**



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