



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 main reason for the change in the color of the moths? The trees got blacker and became dark because of coal soot

8. What is natural selection? When an organism has a trait that helps it survive and reproduce

9. Why would dark moths have an advantage? They are harder to see on black trees

10. Questions

10. What is an adaptation? A trait that helps an organism survive and reproduce

11. How do scientists use fossils? To learn about the history of life on Earth

12. How do scientists use fossils to learn about the history of life on Earth? By looking at the shape and structure of the fossils

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Peppered Moth Simulation Worksheet Answer Key

Ying-Ying Zheng



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