

Name: _____

Date: _____

How is the peppered moth evidence of natural selection over a short period of time?

Lab # _____

Step 1- Background information:

Charles Darwin collected a large amount of facts to create the theory of evolution by natural selection. Darwin described natural selection as the “process by which the organisms that are best adapted to a specific environment survive and produce more offspring than organisms that are not as well adapted”. One of his difficulties in proving the theory, however, was the lack of an example of evolution over a short period of time, which could be observed during ones lifetime. Although Darwin was unaware of it, remarkable examples of evolution, which might have helped to persuade people of his theory, were in the countryside of his native England. One such example is the evolution of the peppered moth, *Biston betularia*.

- 1) Describe Darwin's theory of natural selection in your own words.

- 2) What was one difficulty Darwin had supporting his theory, even though he had tremendous (large) amounts of evidence?

- 3) Why was his theory so difficult to prove?

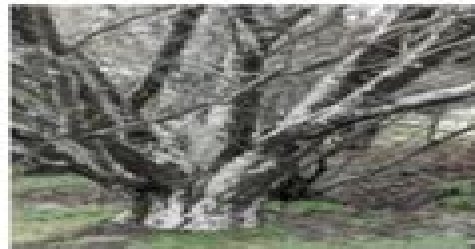
- 4) What species was evolving rapidly in England that could support his theory of evolution by natural selection?

Step 2- Read the following captions and carefully make observations about the pictures to help you answer the accompanying questions.

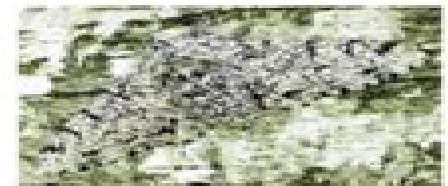
Before the year 1845, in the city of Manchester, England a population of light gray colored moths known as Peppered moths lived in the surrounding forests. They would cling to the trunks of trees that were covered with a light gray colored bark, like them.



1. Light gray peppered moth



2. Light gray colored bark



3. Light gray peppered moth on the light gray colored tree

*See COLORED pictures

Techapps Peppered Moth Lab Answers

Jiyuan Zhang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Jiyuan Zhang.

Techapps Peppered Moth Lab Answers:

The Peppered Moth ,1968

Taking the Peppered Moth with a Grain of Salt David Wÿss Rudge,1999

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A Revolutionary Force in the Bookish Scene: The Persistent Impact of E-book Books

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The advent of E-book books has certainly reshaped the literary landscape, introducing a model shift in the way books are released, distributed, and consumed. Traditional publication houses have embraced the digital revolution, adapting their strategies to accommodate the growing demand for e-books. This has led to a rise in the accessibility of E-book titles, ensuring that readers have entry to a vast array of literary works at their fingers. Moreover, E-book books have democratized entry to literature, breaking down geographical limits and providing readers worldwide with equal opportunities to engage with the written word. Regardless of their location or socioeconomic background, individuals can now engross themselves in the intriguing world of books, fostering a global community of readers.

Conclusion: Embracing the Kindle Experience

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E-book books, with their inherent convenience, flexibility, and vast array of titles, have unquestionably transformed the way we encounter literature. They offer readers the liberty to discover the limitless realm of written expression, whenever, anywhere. As we continue to travel the ever-evolving online landscape, E-book books stand as testament to the lasting power of storytelling, ensuring that the joy of reading remains accessible to all.

<https://letsgetcooking.org.uk/About/virtual-library/default.aspx/Sybex%20Ccn%20Routing%20Study%20Guide.pdf>

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