

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.

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

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

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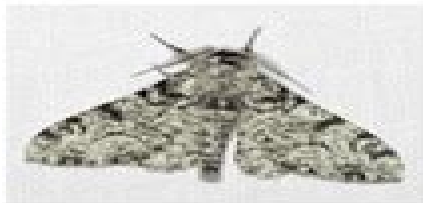
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- 4) What species was evolving rapidly in England that could support his theory of evolution by natural selection?

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

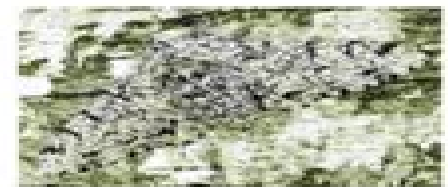
Before the year 1845, in the city of Manchester, England a population of light gray colored moths known as Peppered moths lived in the surrounding forests. They would cling to the trunks of trees that were covered with a light gray colored bark, like them.



1. Light gray peppered moth



2. Light gray colored bark



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

\*See COLORED pictures

# Peppered Moth Answer Key Techapps

**Léo Pomar**



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