

POGIL: Process-Oriented Guided Inquiry Learning

Evidence of Evolution & Selection

LEARNING OBJECTIVE:

Analyze & interpret 3 scientific models on Evidence of Evolution and Selection in a POGIL lab collaborative Group activity.

ESSENTIAL QUESTION:

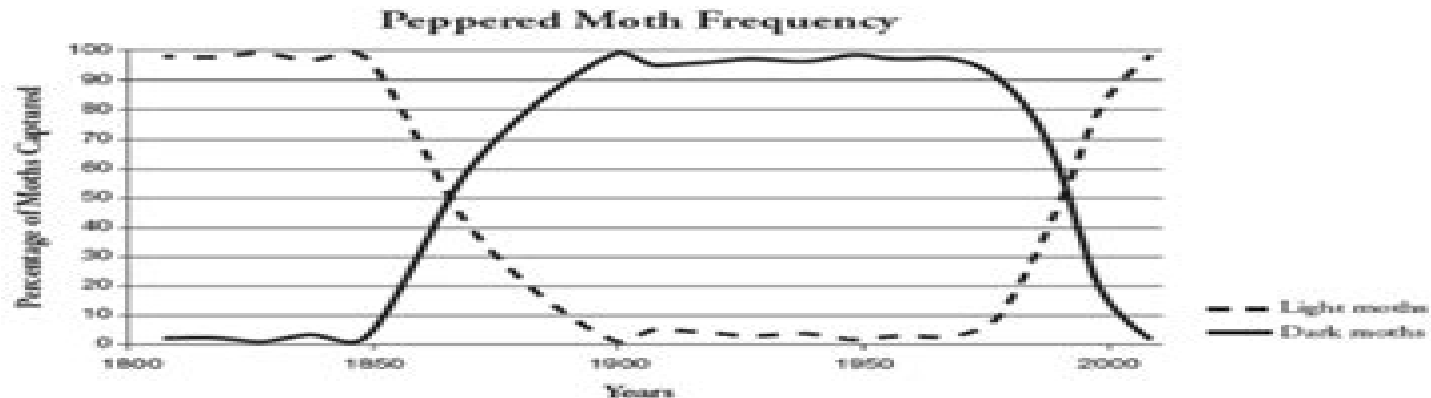
How are selection, DNA, comparative anatomy, and cladograms used to show evidence of evolution?

Model: Color Variations in Moths in Great Britain

Read This!

Populations of most living organisms exhibit genetic diversity among individuals. Certain traits in the population give some organisms a greater chance of survival than individuals that lack these traits. Because these traits tend to increase the chance of survival, these individuals may produce more offspring that will also have the trait that favors survival. Over time, the number of individuals within the population possessing the favorable trait increases while the number of offspring with the unfavorable trait decreases.

Model 2 – Color Variations in Moths in Great Britain



Refer to the graph of Peppered Moth Frequency in Model 2. Which moth color was more prevalent (Common) before 1850?

The most common moth before 1850 was the light moths.

Pogil Evolution And Selection

Wenbin Ji



Pogil Evolution And Selection:

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