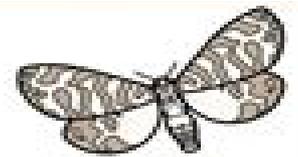


PEPPERED MOTH



NATURAL SELECTION ACTIVITY

✓ READING & QUESTIONS

✓ MOTH CAMOUFLAGE ACTIVITY

CAMOUFLAGED MOTHS CREATIONS
Name: _____
Camouflage is a type of adaptation that can be shaped by natural selection. Camouflage refers to the ability of an organism to blend in with its surroundings, making it less visible to predators or prey. This adaptation enhances the organism's chances of survival by reducing the likelihood of detection. Natural selection plays a crucial role in the development and persistence of camouflage in populations over time. Individuals with traits that provide effective camouflage are more likely to survive and reproduce, passing on their genes to the next generation.

Grades 8-12

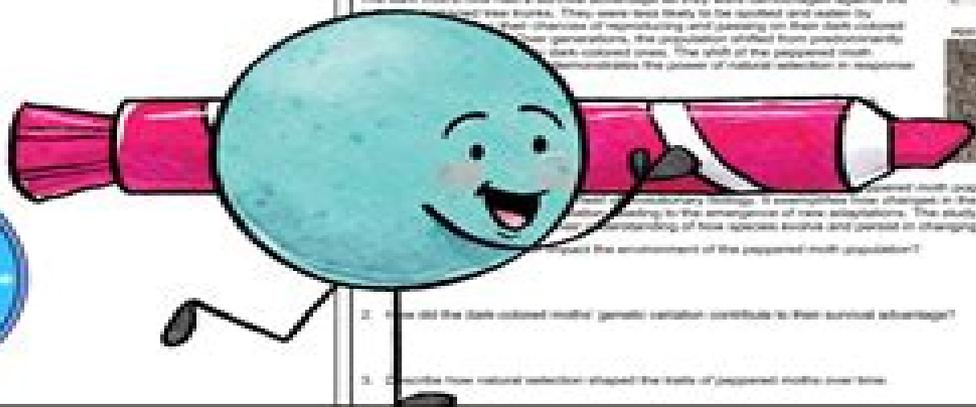
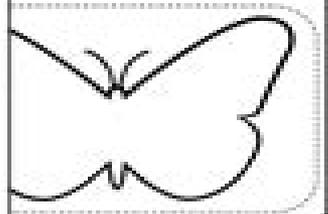
PEPPERED MOTHS AND NATURAL SELECTION

During the industrial revolution in England, a form of the peppered moth, scientifically referred to as the dark moth, became a common sight. This was due to its darker appearance. Prior to the industrial revolution, the peppered moth population consisted of mostly light-colored individuals, which closely resembled the lichen-covered tree trunks where they would rest. This adaptation is a type of camouflage called background matching. Because the moths shared similar color and pattern to the trees, they were difficult for predators to see.

However, the rise of industrialization in the industrial revolution brought about significant changes in the moth's environment. The increase in pollution caused by factories resulted in the darkening of tree trunks, making the light-colored moths more visible to predators. Over time, those that changed to the darker color led to a shift in the survival advantages of different traits within the population.

Natural selection, the process by which traits best suited to an organism's environment become more common in a population over time, played a significant role in the peppered moth's evolution during this period. The dark-colored individuals had a genetic variation that allowed them to be better suited to their changing surroundings. The dark moths now had a survival advantage as they were camouflaged against the dark tree trunks. They were less likely to be spotted and eaten by predators, giving them a higher chance of reproducing and passing on their dark-colored genes to the next generation. The population shifted from predominantly light-colored moths to predominantly dark-colored moths. The shift of the peppered moth population demonstrates the power of natural selection in response to environmental changes.

1. How did the environment change during the industrial revolution?
2. How did the dark-colored moth's genetic variation contribute to their survival advantage?
3. Describe how natural selection shaped the traits of peppered moths over time.



CAMOUFLAGING MOTHS ACTIVITY

Moths Lab Key

DJ Losen



Moths Lab Key:

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