Selection and Speciation

How can changes in a population result in the formation of a new species?

Why?

Have you ever wondered how the great diversity of life on Earth has come about or how a single new species forms? Environmental pressures may cause populations to change over time or evolve. This is because an organism's ability to live to adulthood in its current environment will determine its reproductive success and ability to pass on its genes. But changes within a population can occur without creating a new species. At what point do scientists start thinking of a new name for a species?

Model 1 - Three Types of Selection



- 1. What variables do the graphs in Model 1 compare?
- What are the three types of selection illustrated in the graphs in Model 17
- According to the graphs in Model 1, there is variation in the body mass in the original population. Using your knowledge of genetics, describe how this variation is possible.
- Refer to graph A of Model 1.
 - a. How is the population that has experienced selection different from the original population?
 - b. Fitness is defined as the relative ability of an individual (or population) to survive, reproduce, and pass on genes. Which individuals in the original population appear to display better fitness?
 - c. As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph A.
- Refer to graph B of Model 1.
 - a. How is the population that has experienced selection different from the original population?
 - b. Which individuals in the original population appear to display better fitness?
 - As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph B.
- Refer to graph C of Model 1.
 - a. How is the population that has experienced selection different from the original population?
 - b. Which individuals in the original population appear to display better fitness?
 - c. As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph C.

Pogil Selection And Speciation Teacher Guide

Science Curriculum Improvement Study, Chester Alvin Lawson

Pogil Selection And Speciation Teacher Guide:	

The Enigmatic Realm of Pogil Selection And Speciation Teacher Guide: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Pogil Selection And Speciation Teacher Guide** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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