Evolution Test Study Guide

Scientists estimate that the Earth is 4.6 billion years old. This gives time for evolution to occur, organisms to adapt, and species to become extinct.



Charles Darwin was an English naturalist who traveled around the world in the 1800's. In the Galapagos Islands, he studied the variations between the beaks of Galapagos finches. He noticed that while the finches all had similarities and seemed to come from a common ancestor, they each had different beaks, specialized for eating different food sources. Darwin wrote a book called *On the Origin of the Species*, which explained his Theory of Evolution through Natural Selection.



Evolution is the gradual change in populations over long periods of time. For there to be change in a population over time it must start with a mutation which is a random change in DNA.

Species is defined as a group of organisms whose members can successfully reproduce. Populations are the individuals of one species that live together in a given area.

Genetic variations (differences) result from mutations (changes) in the DNA. Different hair colors, eye colors and skin colors are examples of genetic variations.

Natural selection is the process by which organisms with favorable traits survive and reproduce at higher rates than organisms without the trait. Natural selection happens continuously throughout time.

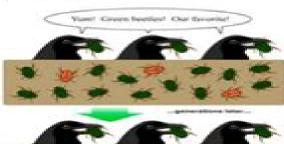
4 Parts to Darwin's Theory of Evolution by Natural Selection

1. Overproduction: each species produces more offspring than will survive.

2. Genetic Variation: Individuals in a population are slightly different from one another. These variations increase, decrease or have no effect on an organism's chance of survival. Differences in physical appearance are caused by mutations, changes in DNA.

 Struggle to survive: predators, disease, and the availability of resources will limit the number of organisms that can survive to adulthood. Organisms must compete for survival.

4. Successful Reproduction: is the key to natural selection. Individuals that are well-suited to their environment will survive and reproduce, passing down those successful traits to their offspring. The organisms that are not well-suited or well-adapted are more likely to die early and not have offspring.







Green beetles have been selected against, and brown

Evolve Test Study Guide

M Woodhall



Whispering the Secrets of Language: An Psychological Quest through Evolve Test Study Guide

In a digitally-driven earth wherever displays reign supreme and instant interaction drowns out the subtleties of language, the profound secrets and mental nuances hidden within phrases often go unheard. However, located within the pages of **Evolve Test Study Guide** a interesting fictional prize pulsing with organic thoughts, lies a fantastic journey waiting to be undertaken. Written by a talented wordsmith, that marvelous opus invites viewers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within ab muscles fabric of every word. Within the emotional depths of the poignant evaluation, we will embark upon a honest exploration of the book is primary styles, dissect their captivating writing design, and succumb to the effective resonance it evokes deep within the recesses of readers hearts.

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