

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**.

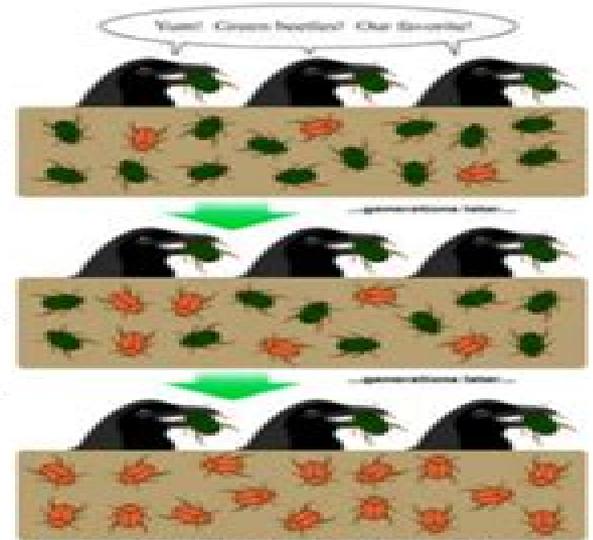
Species is defined as a group of organisms whose members can successfully reproduce. **Populations** are the individuals of one species that live together in a given area.

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.
- 3. 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.



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