

Evolution Study Guide Answer Key

1. **EVOLUTION** or change over time, is the process by which modern organisms have descended from ancient organisms
2. A scientific **THEORY** is a well supported, testable explanation of phenomena that have occurred in the natural world.
3. **CHARLES DARWIN** was an English naturalist who made numerous observations during his travels on the Beagle which led him to pose a hypothesis about how life changes over time.
4. **FOSSILS** are the preserved remains of ancient organisms that provide evidence for how life has changed over time.
5. **JEAN-BAPTISTE LAMARCK** proposed that the selective use or disuse of an organ led to a change the organ that was then passed on to the offspring.
6. **FITNESS** is the ability of an individual to survive and reproduce in its specific environment.
7. The process whereby individuals that are better suited to their environment survive and reproduce more successfully is called **NATURAL SELECTION** , which Darwin nicknamed **SURVIVAL OF THE FITTEST**
8. Structures that have different mature forms but develop from the same embryonic tissues are called **HOMOLOGOUS STRUCTURES**
9. Homologous structures that are so reduced in size that they no longer function, like the human appendix or legs in skinks, are called **VESTIGIAL** organs
10. The idea that each living species has descended with changes over time from other species is called **DESCENT** with **MODIFICATION**.
11. Dolphins, penguins, and sharks are distantly-related species that share similar characteristics which help them live in water. This is an example of **CONVERGENT** evolution.
12. Even though the Galapagos finches share a common ancestor, they have evolved to fit the ecosystems of their individual islands. This is an example of **DIVERGENT** evolution.
13. Another name for divergent evolution is **ADAPTIVE RADIATION**

MULTIPLE CHOICE

Circle the answer that best completes the statement.

A well supported, testable explanation of phenomena that have occurred in the natural world is called a

- A. hypothesis
- B. theory**
- C. law

Of all the places he visited, the _____ Islands influenced Darwin's ideas about evolution the most.

Evolution Study Guide Answer Key

Samuel C. Brownstein, Mitchel Weiner

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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