

Evolution Study Guide

Answer the following questions using complete sentences.

1. What is evolution?
2. Fruit fly embryos and frog embryos differ from each other more than frog embryos and human embryos. Explain what this tells us about how these three species are related.
3. List 3 examples of substances that can be fossilized. How do scientists use the fossil record to support similarities between groups of organisms?
4. Place the following events in chronological order 1-7 (1=oldest, 7=most recent): first birds, first mammals, first land plants, first amphibians, first life forms in oceans, first Homo sapiens, first bacteria (life on earth)?
5. What are homologous structures? Explain how they are used to support the theory of a common ancestor among all life.
6. What do the differences in amino acids in the cytochrome C gene tell us about the relatedness of two species?
7. Explain the difference between "natural selection" and "artificial selection". Give an example of each.
8. Sketch and label a simple picture to illustrate your understanding of each of the 4 steps of evolution.

Evolutionary Steps

Pictures and Labels

Biology Evolution Unit Study Guide Answers

TD Snyder



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