

Name _____

BIOLOGY
Ch 13 – How Populations Evolve
Study Guide

Charles Darwin was not the first person to ponder the origin of species. Match each of the following with his place in unraveling the history of life. Don't focus on dates, but rather on how ideas about the origin and history of life have changed over the centuries.

- | | | |
|------------|-------|--|
| A. Darwin | _____ | 1. Believed in gradual geological change, the earth was constantly changing |
| B. Lyell | _____ | 2. Conceived a theory of evolution almost identical to Darwin's |
| C. Wallace | _____ | 3. Believed that all organisms produce more offspring than the environment can support |
| D. Malthus | _____ | 4. Wrote <i>The Origin of Species</i> , explaining "descent with modification" |

In addition to fossils, there are other kinds of evidence for evolution besides fossils. Name the category of evidence to which each of the following examples belongs: fossils, comparative anatomy (homologous & vestigial structures), comparative embryology (embryos), biogeography, & molecular biology (DNA & proteins).

- | | |
|-------|--|
| _____ | 5. Fertilized eggs of earthworms, insects, and snails all go through the same pattern of cell division. |
| _____ | 6. The genes of humans and chimpanzees are about 99% identical. |
| _____ | 7. Remains of upright-walking but small-brained apes have been found in Africa. |
| _____ | 8. All animals with backbones have 12 pairs of nerves extending from the brain. |
| _____ | 9. A protein called albumin is very similar in dogs and wolves, less similar in dogs and cats. |
| _____ | 10. The farther an island is from the mainland, the more different its plants and animals are. |
| _____ | 11. Animals called trilobites were common in the oceans 300 million years ago, but they have been extinct for millions of years. |

How Populations Evolve Study Guide

Sebastian Brünink



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