

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 Key

K Morrison



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who is also the author of the book's test item file a resource for instructors that includes over 1200 questions for easy student evaluation

The Princeton Guide to Evolution David A. Baum, Douglas J. Futuyma, Hopi E. Hoekstra, Richard E. Lenski, Allen J. Moore, Catherine L. Peichel, Dolph Schluter, Michael C. Whitlock, 2017-03-21 The essential one volume reference to evolution The Princeton Guide to Evolution is a comprehensive concise and authoritative reference to the major subjects and key concepts in evolutionary biology from genes to mass extinctions Edited by a distinguished team of evolutionary biologists with contributions from leading researchers the guide contains some 100 clear accurate and up to date articles on the most important topics in seven major areas phylogenetics and the history of life selection and adaptation evolutionary processes genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society Complete with more than 100 illustrations including eight pages in color glossaries of key terms suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students scientists in related fields and anyone else with a serious interest in evolution Explains key topics in some 100 concise and authoritative articles written by a team of leading evolutionary biologists Contains more than 100 illustrations including eight pages in color Each article includes an outline glossary bibliography and cross references Covers phylogenetics and the history of life selection and adaptation evolutionary processes genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society

College Biology Learning Exercises & Answers Textbook Equity, 2014-08-22 This textbook is designed as a quick reference for College Biology volumes one through three It contains each Chapter Summary Art Connection Review and Critical Thinking Exercises found in each of the three volumes It also contains the COMPLETE alphabetical listing of the key terms black white version College Biology intended for capable college students is adapted from OpenStax College's open CC BY textbook Biology It is Textbook Equity's derivative to ensure continued free and open access and to provide low cost print formats For manageability and economy Textbook Equity created three volumes from the original that closely match typical semester or quarter biology curriculum No academic content was changed from the original See textbookequity.org/tbq_biology This supplement covers all 47 chapters

College Biology II James Hall Zimmerman, 1963

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