

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## STUDY GUIDE: EVOLUTION AND NATURAL SELECTION

1. Biological evolution is the \_\_\_\_\_ in the genetic makeup of a species through \_\_\_\_\_



\_\_\_\_\_ the hypothesis that evolution of a species occurs in periods of rapid change, separated by periods of little change.



\_\_\_\_\_ the hypothesis that evolution of a species occurs at a slow constant rate.

### NATURAL AND ARTIFICIAL SELECTION



2. Define natural selection:

\_\_\_\_\_

Determine if the following scenarios are examples of natural selection. Write "Y" for Yes and "N" for No.

3. \_\_\_\_\_ Arctic penguins that do not have thick layers of blubber are not able to survive the cold, whereas penguins that have thick layers of blubber survive the winters and lay more eggs.



4. \_\_\_\_\_ Peacocks with healthy, bright, colorful, thick tails tend to attract more peahens, whereas peacocks that have unhealthy tails do not attract as many peahens, and therefore do not have many offspring. This trend has caused most peacocks to have brilliant tail feathers.

5. \_\_\_\_\_ Many designer dog breeds are such as the "Cockerloo", "Aussiedoodle" or "Puggle" are formed in which chosen traits are bred over many generations until the desired outcome is achieved.

6. \_\_\_\_\_ Improved nutrition in humans over the past century has caused them to grow to their fullest potential height.

7. \_\_\_\_\_ Elephant herds in Uganda are being targeted for their tusks. This has led to an increase in tuskless elephants.

8. Come up with one significant example of artificial selection and not natural selection. Explain why? how it has changed the species:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

9. Natural selection acts upon (circle one) genotypes | phenotypes.

TRUE OR FALSE: If you believe the following statement is True, write "T". If you believe it is False, write "F".

\_\_\_\_\_ 10. Competition is a factor of natural selection.

\_\_\_\_\_ 11. Genetic variation is a factor of natural selection.

\_\_\_\_\_ 12. Individuals among a population that are better adapted to their environment leave more offspring.



# Evolution And Natural Selection Study Guide Answers

**Richard Straub**



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Psychology, Eighth Edition, in Modules Study Guide Richard Straub, 2006-08-03 Longtime Myers collaborator Richard Straub's study guide is customized to follow the modular format and contents of the text Study Guide to Accompany Peterson Psychology Todd D. Zakrajsek, 1997 **Study Guide for Life on Earth** P.S. Associates, 1978 **Study Guide** Raymond Scupin, 2003-08 *Study Guide for Psychology, Seventh Edition* Richard O. Straub, David G. Myers, 2003-06-20 This new edition continues the story of psychology with added research and enhanced content from the most dynamic areas of the field cognition gender and diversity studies neuroscience and more while at the same time using the most effective teaching approaches and learning tools **Cultural Anthropology Study Guide** James G. Duvall, III, Ricky Knight, Corey S. Pressman, 2005-11 **Environmental Science** Michael L. McKinney, Robert M. Schoch, Logan Yonavjak, 2012 Updated with the latest data from the field Environmental Science Systems and Solutions Fifth Edition explains the concepts and teaches the skills needed to understand multi faceted and often very complex environmental issues The authors present the arguments rebuttals evidence and counterevidence from many sides of the debate The Fifth Edition includes new Science in Action boxes which feature cutting edge case studies and essays contributed by subject matter experts that highlight recent and ongoing research within environmental science With an Earth as a system approach the text continues to emphasize Earth's intricate web of interactions among the biosphere atmosphere hydrosphere and lithosphere and how we are central components in these four spheres This flexible unbiased approach highlights 1 how matter cycles over time through Earth's systems 2 the importance of the input throughput output processes that describe the global environment 3 how human activities and consumption modify Earth's systems 4 and the scientific economic and policy solutions to environmental problems Revised and updated to reflect current trends and statistics within Environmental Science New content on renewable energy solar panels and compact fluorescent light bulbs The latest information on Hydropower and the advantages and disadvantages of hydroelectric energy The companion website includes robust learning tools that enable

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**Student Study Guide for Campbell's Biology, Second Edition**, Martha R. Taylor, 1990

**Study Guide for Man, Nature, and Society**, Theodore W. Pohrte, L. Jack Pierce, 1975

**Study Guide to Accompany Biology by Karen Arms and Pamela S. Camp**, Russell C. Hollingsworth, 1979

*Study Guide and Solutions Manual*, Bruce A. Chase, Peter J. Russell, 2005-06. This student resource contains chapter outlines of text material, solutions to all end-of-chapter problems, key terms, suggestions for analytical approaches, problem-solving strategies, and a variety of additional questions for student practice. Also featured are questions that relate to chapter-specific animations and iActivities.

**Study Guide: Sg Concepts in Biology**, Eldon D. Enger, Frederick C. Ross, 2003

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