#### Biology Unit #7 - Evolution

Name:\_\_\_\_\_ Per.\_\_\_\_

#### ESSENTIAL SKILLS

- 7-1. Explain how overproduction of offspring, competition and individual variation lead to natural selection.
- 7-2. List and describe five evidences for evolution.
- 7-3. Use evidence to describe how the five mechanisms of evolution lead to the evolution of a population.
- 7-4. Describe and provide an example of how a change in environmental conditions may lead to the formation of new species (speciation) or the extinction of existing species.

#### STUDY GUIDE

- Explain how each of the following relate to Natural Selection:
  - Genetic Diversity gives more options for nature to select from.
  - Overproduction of offspring provides more variety and fight for survival; ensures that at least some of the offspring will survive.
  - Competition fight for survival, better "fighters" survive and pass on their genes to the next generation.
  - Reproduction can pass the "better" genes on to the next generation.
- What is meant by <u>Fitness</u> in Biology? List at least 4 different environmental factors that affect a species "fitness" or survival.
  - Ability to survive AND reproduce. Those with "better" traits will be able to reproduce more. Survival depends on food, competition for mate, avoidance of predators, temperature, water, etc.
- Why is "survival of the fittest" an incomplete description of <u>natural selection</u>? ? Survival of the fittest does not include the importance of reproduction. Without survival <u>and</u> reproduction, the population does not improve.
- 4. Why is it that an individual can not evolve; only populations can evolve? Evolution involves the change in gene pools over time, and an individual cannot change its genes. Populations can see a shift in the gene frequencies with each generation. This is genetic change, or evolution.
- 5. Explain how each of the following are used to support evolutionary relationships among species:
  - Fossils evidence of previous life forms through time. Shows that life on Earth has changed in the past.
  - Biogeography Looking at similar species of animals in different parts of the world.

    Provides evidence of how environmental factors drive evolution of different species.
  - Molecular Comparisons DNA & Protein comparisons show relatedness. Changes in DNA accumulate over time.
  - Anatomical Comparisons Homologous & Vestigial structures show modifications of the same basic body types. Indicates a common/shared ancestry, where the same genes for these structures were preserved in each developing species and passed on.
  - Embryological Development Studying embryos show similar patterns of development among related species. The more closely related the species are, the longer their embryo develop 'patterns' each other. Very different species show great differences right away.
- 6. Why is it important for scientists to use more than one source of evidence to support evolutionary relationships? Give an example of many sources leading to the same conclusions about evolution.

Multiple evidences and repeatable results lead to accepted theories. Example: Whale evolution from land mammals = fossils, homologous structures, DNA evidence, embryology, biogeography all show the same evolutionary path.

# **Chapter 1darwin Theory Of Evolution Answer Key**

**Ying-Ying Zheng** 

#### **Chapter 1darwin Theory Of Evolution Answer Key:**

Darwinian Evolution and Classical Liberalism Stephen C. Dilley, 2013-05-02 Darwinian Evolution and Classical Liberalism canvasses an array of thinkers from the past to the present as it examines fundamental political philosophical ethical economic anthropological and scientific aspects of the ferment between Darwinian biology and classical liberalism Early chapters focus on classical thinkers like John Locke and Adam Smith while later chapters provide analyses of present day classical liberals focusing especially on F A Hayek Thomas Sowell and Larry Arnhart the most prominent advocates of contemporary classical liberalism Thematically the volume falls into three parts Part I examines foundational matters arguing that Darwinism and classical liberalism hold incompatible visions of morality human nature and individual autonomy This section also contends that the free market's spontaneous order is fully compatible with a teleological or non Darwinian view of the universe Part II turns to contemporary applications contending that Darwinism and classical liberalism are at odds in their views of or implications about limited government vital religion economic freedom and the traditional family This section also argues that since its inception Darwinism has attenuated core tenets and values of classical liberalism and Western civilization Part III of the volume contains alternative views to those in the first two parts adding critical diversity to the book Respectively these chapters hold that Darwinian evolution simply has little to say about classical liberalism an evolutionary account of human volition is fully compatible with the individual choice presupposed in classical liberalism and evolutionary naturalism unlike religious alternatives provides a strong foundation for freedom morality and the traditional Science of Life: Biology Parent Lesson Plan ,2013-08-01 The Science of Life Biology Course Description This is family the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Intro to Science Have you ever wondered about human fossils cave men skin color ape men or why missing links are still missing Want to discover when T Rex was small enough to fit in your hand Or how old dinosaur fossils are and how we know the age of these bones Learn how the Bibles world view not evolution s unites evidence from science and history into a solid creation foundation for understanding the origin history and destiny of life including yours In Building Blocks in Science Gary Parker explores some of the most interesting areas of science fossils the errors of evolution the evidences for creation all about early man and human origins dinosaurs and even races Learn how scientists use evidence in the present how historians use evidence of the past and discover the biblical world view not evolution that puts the two together in a credible and scientifically sound way Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the magnificent origins of life Within Building Blocks in Life Science you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and

new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process Applying Evolutionary Archaeology Michael J. O'Brien, R. Lee Lyman, 2007-05-08 Anthropology and by extension archaeology has had a long standing interest in evolution in one or several of its various quises Pick up any lengthy treatise on humankind written in the last guarter of the nineteenth century and the chances are good that the word evolution will appear somewhere in the text If for some reason the word itself is absent the odds are excellent that at least the concept of change over time will have a central role in the discussion After one of the preeminent and often vilified social scientists of the nineteenth century Herbert Spencer popularized the term in the 1850s evolution became more or less a household word usually being used synonymously with change albeit change over extended periods of time Later through the writings of Edward Burnett Tylor Lewis Henry Morgan and others the notion of evolution as it applies to stages of social and political development assumed a prominent position in anthropological disc sions To those with only a passing knowledge of American anthropology it often appears that evolutionism in the early twentieth century went into a decline at the hands of Franz Boas and those of similar outlook often termed particularists However it was not evolutionism that was under attack but rather comparativism an approach that used the ethnographic present as a key to understanding Biological Science Biological Sciences Curriculum how and why past peoples lived the way they did Boas 1896 Study, 1963 Biology textbook **Test of Faith** Jenny Baker, 2009 **Chapter Resource 13 Theory/Evolution Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 The Philadelphia Polyclinic ,1895 Vol 7 contains the Record of the Philadelphia County Medical Society for 1898 The Congregational Quarterly Joseph Sylvester Clark, Henry Martyn Dexter, Alonzo Hall Quint, Isaac Pendleton Langworthy, Christopher Cushing, Samuel Burnham, 1877 The Academy ,1889 Academy; a Weekly Review of Literature, Learning, Science and Art, 1871 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910 The Academy and Literature Charles Edward Cutts Birch Appleton, Charles Edward Doble, James Sutherland Cotton, Charles Lewis Hind, William Teignmouth Shore, Alfred Bruce Douglas, Ellis Ashmead-Bartlett, Thomas William Hodgson Crosland, 1871 American Druggist and Pharmaceutical Record ,1909 Neuroscience on perception and vision Basic Reading Skills Handbook Harvey S. Wiener, Charles Bazerman, 2005-07 A famous painting is going to the Grierson Gallery in LA and they want a top man to come to the United States He can talk about the artist The National Gallery in London send Mr Bean But something is very wrong with Mr Bean He s very very strange and dangerous After he arrives accidents start to happen

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