

COMPARISON OF EVOLUTION MECHANISMS: SUMMARY

Lamarck's Hypothesis: The Inheritance of Acquired Characteristics

1. A changing environment creates a need for certain features to be developed in order to survive.*
2. "Acquired Characteristics": Through use and/or non-use, those features needed for survival are developed in each individual.
3. Inheritance: Those characteristics developed ("acquired") by individuals are somehow passed on to their offspring, who can continue that development...
4. New Species: Eventually, over many generations, enough differences have developed that we can say we have a new species.

Darwin's Hypothesis: Natural Selection

1. Overproduction: More offspring produced than will ultimately survive and reproduce.
2. Variation: Inheritable features vary from individual to individual.
3. Change in environment: Changes in climate, topography, food supply, predators, etc.
4. "Struggle for existence": Mainly competition within the species, for food, habitat, survival from being eaten.
5. "Survival of the fit" (not necessarily the strongest): Those with more adaptive traits tend to survive longer and/or produce the most offspring; these are the "naturally selected".
6. Inheritance of "selected" features: Traits involved are already inheritable, but may involve new combinations.
7. New Species, better adapted to the new environment: When the collective traits of the population differ significantly from the earlier population, and can no longer reproduce with the earlier population.

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### QUICK COMPARISON

| <u>LAMARCK</u>                                                                         | <u>DARWIN</u>                                                                                                   |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1. Environment changes, thus creating a "need" to change.                              | 1. Variations of inheritable features which already normally exist.                                             |
| 2. Development of new features, "in order to survive,"* or "so that one can survive,"* | 2. Environment "screens out" (or SELECTS) features contributing to survival, and tends to eliminate the others. |
| 3. Newly acquired traits somehow get passed down to offspring.                         | 3. Those with traits which help survival tend to survive and have more offspring, who inherit those traits.     |
| 4. New Species, eventually.                                                            | 4. New Species, eventually.                                                                                     |

- \* Note the Anthropomorphic wording here ("something non-human having human motivations or attributes"). This could also be referred to as the "Mickey Mouse" syndrome. Be sure to avoid this kind of wording or implication in any explanations of Natural Selection.

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COMMON MISCONCEPTIONS TO AVOID

1. Only groups of organisms can evolve (populations or species); individuals never evolve.
2. Adaptations, in the evolutionary sense, is properly used in class and text, can only "develop" as characteristics of a species, generally over a long period of time, involving many generations; those must not be confused with the "adjustments" an individual might make, consciously or otherwise, enabling it to survive better (such as "developing resistance to a disease" or "adapting to higher altitudes", etc.).

Skills Evolution Natural Selection And Speciation Answers

**Jon Scott, Anne Goodenough, Gus
Cameron, Dawn Hawkins, Martin
Luck, Jenny Koenig, Alison Snape, Despo
Papachristodoulou, Kay Yeoman, Mark
Goodwin**

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Unity and Disunity in Evolutionary Biology Richard G. Delisle, Maurizio Esposito, David Ceccarelli, 2024-09-02 It is not uncommon to see in major areas of research concerned with science that historical studies are accompanied by the rise of complementary or contradictory historiographies With time it seems scholars discover new approaches to study topics thus questioning old concepts traditions periodizations and historical labels Apparently this has not been the case in evolutionary thought In that area the main historiographic labels such as Darwinian Revolution Eclipse of Darwinism and Modern Synthesis have been in place and largely uncontested for about 50 years Such labels seem to work as irrefutable and often hidden premises of many historical reconstructions philosophical analyses and scientific conceptualizations This volume aims to move beyond this state of affair opening new thinking avenues by revisiting the traditional historiography and laying the groundwork for establishing a new historiography that considers the intertwined threads that compose evolutionary biology Notably evolutionary studies seem to have been marked by the tension between unification attempts and the proliferation of approaches methodologies and styles of thinking As the contributors to this volume illustrate research traditions branched off throughout the history of evolutionary thought before and after Charles Darwin The resulting complexity challenges traditional thinking categories throwing a somewhat different light on a more recent label like the Extended Evolutionary

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The Design of Science, Evolution, the Environment, and Redemption Jim Keck, 2022-07-18 Don't send your kids off to college without this book especially if they will be engaged in the sciences or philosophy The Design of Science Evolution the Environment and Redemption will clarify the differences scientific basis and logical foundation for the two most dominating and competing worldviews we have adopted in western society nowadays namely science and religion After reading this book you will be able to better understand articulate and defend what you believe and why As a society in general we need to understand the basis of our morality and culture and how science and religion each have a role to play Just a few of the types of questions answered are Is there really competition and conflict between science and religion What is the technological and philosophical scope of science How does our worldview affect the development of morality and virtue both individually and collectively Do we really need to be concerned about global environmental changes Which type of worldview does the best job of providing answers to the tough questions on origin purpose environmental issues morality government and eternity Is a belief in God and the Bible part of the evolutionary process Written by a mechanical engineer with more than thirty years of design and R D experience The Design of Science Evolution the Environment and Redemption lays out in a clear concise easy to read and entertaining manner much of the science logic and data used by academia and the media to answer life's toughest questions as compared to the biblical Judeo Christian tradition This book explores how we can measure the truthfulness accuracy and scope of these worldviews and how they can affect us personally spiritually and culturally The answers are logically spiritually and technically robust as well as just plain surprising in many ways

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Adaptive Origins Peter LaFrenière, 2011-01-07 In this text students are invited to rethink psychology by grounding it in the natural sciences with the understanding that evolutionary and developmental processes work together with culture to solve problems of human adaptation These processes are cast as interdependent Development cannot be understood except in the light of evolutionary theory and the best proof of evolution is the fact of development For students of evolutionary psychology all the central topics such as evolved mental modules for theory of mind or language require an understanding of

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