

16.3 Darwin Presents His Case

Lesson Objectives

-  Describe the conditions under which natural selection occurs.
-  Explain the principle of common descent.

Lesson Summary

Evolution by Natural Selection Darwin published *On the Origin of Species* in 1859. In the book, Darwin describes and provides evidence for his explanation of how evolution occurs. He called this process **natural selection** because of its similarities to artificial selection. Darwin's theory of evolution by natural selection can be summed up as follows:

- ▶ More offspring are produced than can survive to reproduce. There is competition for limited resources, or a struggle for existence.
- ▶ Individuals exhibit variation in their traits and some of these differences can be passed on to their offspring.
- ▶ Inherited traits that increase an organism's ability to survive and reproduce are called **adaptations**.
- ▶ Differences among adaptations affect an individual's **fitness**—the ability to survive and reproduce in a specific environment.
- ▶ Only the fittest organisms live to reproduce and pass on their adaptive traits to offspring. This is known as the survival of the fittest.

From generation to generation, populations continue to evolve as they become better adapted, or as their environment changes.

Common Descent Darwin argued that all species are descended, with modification, from common ancestors. Through descent with modification, all organisms—living and extinct—are linked on a single tree of life.

Evolution by Natural Selection

1. What does the phrase *struggle for existence* mean?

2. Why is camouflage considered an adaptation?

3. How does an animal's level of fitness relate to its chances of survival and reproduction?

Darwin Presents His Case Guide Answers

G. T. Bettany



Darwin Presents His Case Guide Answers:

Student Study Guide for Campbell's Biology Second Edition Martha R. Taylor,1990 *Study Guide for 31840 - Biology-First Edition* Neil A. Campbell,1987 [Darwin'S Racism](#) Leon Zitzer,2016-06-10 Throughout the 19th century in the British Empire parallel developments in science and the law were squeezing Aborigines everywhere into nonexistence Charles Darwin took part in this Again and again he expressed his approval of the extermination of the native lower races The more interesting part of the story is that there were plenty of voices albeit a minority and mostly forgotten now who objected on humanitarian grounds and sometimes scientific grounds as well Europeans they said were becoming polished savages and dehumanizing the Other Darwin was very aware of this criticism and cared not one whit As he said in a letter to Charles Lyell I care not much whether we are looked at as mere savages in a remotely distant future But he well knew it was not a remote future He had read several writers who accused Europeans of being the real savages For a brief moment in his youth in his Diary he himself dabbled in such criticism even though he already believed in the inferiority of indigenous peoples That belief grew firmer as he matured Darwin did not dispute humanitarians so much as he ignored them Its a sad story But oh those humanitarians how they inspire *Darwin Studies* M.J.S. Hodge,2023-05-31 This is the second of a pair of volumes by Jonathan Hodge collecting all his most innovative revisionist and influential papers on Charles Darwin and on the longer run of theories about origins and species from ancient times to the present The focus here is on Darwin himself and the development of his theories Darwin is now such an iconic hero in our histories and such a commanding authority in our sciences that it has become a serious challenge to study him as just another disaffected medical student or would be vicar aspiring zoology professor or gentleman of independent means thinking about sexual reproduction in animals and plants about coral islands or about rock strata and fossils in post Napoleonic Edinburgh Cambridge South America and London But the challenge is one well worth taking up as the papers here demonstrate for such studies require us integrate the precise details of his inquiries with those larger scientific metaphysical religious and political issues of the day that a young ambitious philosopher and naturalist was then expected to engage This contextual understanding can then allow us to reinterpret his relations to such longer run legacies as Christian Platonism Enlightenment materialism and British capitalism Together with the companion volume devoted to those and other long run legacies this volume offers throughout reinterpretations of both the theorist and his theories **The Origin of Species (SparkNotes Literature Guide)** SparkNotes,2014-08-12 The Origin of Species SparkNotes Literature Guide by Charles Darwin Making the reading experience fun Created by Harvard students for students everywhere SparkNotes is a new breed of study guide smarter better faster Geared to what today s students need to know SparkNotes provides Chapter by chapter analysis Explanations of key themes motifs and symbols A review quiz and essay topics Lively and accessible these guides are perfect for late night studying and writing papers **The Cracker Mains Exams eBook** Adda 247 Publications,2019-01-21 Mains exams do play

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Darwin's Argument by Analogy
 Roger M. White, M. J. S. Hodge, Gregory Radick, 2021-11-04. In *On the Origin of Species* 1859, Charles Darwin put forward his theory of natural selection. Conventionally, Darwin's argument for this theory has been understood as based on an analogy with artificial selection. But there has been no consensus on how exactly this analogical argument is supposed to work, and some suspicion too that analogical arguments on the whole are embarrassingly weak. Drawing on new insights into the history of analogical argumentation from the ancient Greeks onward as well as on in-depth studies of Darwin's public and private writings, this book offers an original perspective on Darwin's argument, restoring to view the intellectual traditions which Darwin took for granted in arguing as he did. From this perspective come new appreciations not only of Darwin's argument but of the metaphors based on it, the range of wider traditions the argument touched upon, and its legacies for science after the Origin.

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 George Bettany, 2021-12-02. *Life of Charles Darwin* by G. T. Bettany. Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics, literary fiction, and non-fiction to forgotten or yet undiscovered gems of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

Life of Charles Darwin by G. T. Bettany - Delphi Classics (Illustrated)
 G. T. Bettany, 2017-07-17. This eBook features the unabridged text of *Life of Charles Darwin* by G. T. Bettany, by Charles Darwin. Delphi Classics Illustrated from the bestselling edition of *The Complete Works of Charles Darwin*. Having established their name as the leading publisher of classic literature and art, Delphi Classics produce publications that are individually crafted with superior formatting while introducing many rare texts for the first time in digital print. The Delphi Classics edition of Darwin includes original annotations and

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Darwin Presents His Case Guide Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Darwin Presents His Case Guide Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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