

## Chapter 24: The Origin of Species

### Overview

1. What was Darwin's "theory of speciation"?

#### Speciation

2. Define speciation.

An evolutionary process in which one species splits into two or more species.

3. Distinguish between microevolution and macroevolution.

Microevolution is evolutionary change below the species level—change in the allele frequencies in a population over generations.

Macroevolution is evolutionary change above the species level—for example, the origin of new groups of organisms, such as mammals or flowering plants, through a series of speciation events.

### Concept 24.1 The biological species concept requires reproductive isolation

4. Use the biological species concept to define species.

A species is a population or group of populations whose members have the potential to interbreed in nature and produce viable, fertile offspring, but do not produce viable, fertile offspring with members of other such groups.

5. What is required for the formation of new species?

It hinges on reproductive isolation. There are a number of barriers that can prevent gene flow, usually divided into prezygotic barriers and postzygotic barriers.

6. What are hybrids?

Hybrids are offspring that result from the mating of individuals from two different species or from two true-breeding varieties of the same species.

7. Explain the two types of barriers that maintain reproductive isolation.

Prezygotic barriers are reproductive barriers that impede mating between species or hinder fertilization if interspecific mating is attempted.

Postzygotic barriers are reproductive barriers that prevent hybrid zygotes produced by two different species from developing into viable, fertile adults.

# Chapter 24 The Origin Of Species Study Guide Answers

**Neil A. Campbell**



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Shackelford, 2012-02-13 This volume brings together leading experts in comparative and evolutionary psychology Top scholars summarize the histories and possible futures of their disciplines and the contribution of each to illuminating the evolutionary forces that give rise to unique abilities in distantly and closely related species The Catholic Reading Circle Review, 1895 The World of Biology P. William Davis, Eldra Pearl Solomon, 1986 **Study Guide** George Karleskint, 1991

**The Complete History of the Black Death** Ole Jørgen Benedictow, 2021 Completely revised and updated for this new edition Benedictow s acclaimed study remains the definitive account of the Black Death and its impact on history The first edition of *The Black Death* collected and analysed the many local studies on the disease published in a variety of languages and examined a range of scholarly papers The medical and epidemiological characteristics of the disease its geographical origin its spread across Asia Minor the Middle East North Africa and Europe and the mortality in the countries and regions for which there are satisfactory studies are clearly presented and thoroughly discussed The pattern pace and seasonality of spread revealed through close scrutiny of these studies exactly reflect current medical work and standard studies on the epidemiology of bubonic plague Benedictow s findings made it clear that the true mortality rate was far higher than had been previously thought In the light of those findings the discussion in the last part of the book showing the Black Death as a turning point in history takes on a new significance OLE J BENEDICTOW is Professor of History at the University of Oslo

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