

# 16 Darwin's Theory of Evolution

## Big idea

### Evolution

Q: What is natural selection?

**16.1** What patterns of biodiversity did Darwin observe aboard the *Beagle*?

#### WHAT I KNOW

**SAMPLE ANSWER:** On each island that Darwin visited, he saw different species of plants and animals.

#### WHAT I LEARNED

**SAMPLE ANSWER:** Darwin noticed that different, yet similar, species inhabited separated, but similar, habitats around the globe. Also, different, yet related, species often occupied different habitats within a local area.

**16.2** How did other scientists' work help Darwin develop his theory of natural selection?

**SAMPLE ANSWER:** Other scientists did research on how organisms inherited different traits.

**SAMPLE ANSWER:** Hutton and Lyell concluded that Earth is extremely old. Lamarck suggested that species are not fixed. Malthus reasoned larger populations would deplete resources.

**16.3** What is Darwin's theory of evolution by natural selection?

**SAMPLE ANSWER:** Organisms that are best adapted to their environment survive longer and have more offspring.

**SAMPLE ANSWER:** Natural selection is the process by which organisms with variations most suited to their local environment survive and leave more offspring. Over time, beneficial traits accumulate in a population.

**16.4** What are the main lines of scientific evidence that support Darwin's theory of evolution by natural selection?

**SAMPLE ANSWER:** Fossils show how organisms have changed over time.

**SAMPLE ANSWER:** Biogeography, fossils, homologous structures, similarities in embryological development, the universal genetic code, homologous molecules, and field studies provide evidence of evolution.

# Chapter 16 Darwins Theory Of Evolution Answers

**RS Peters**



## **Chapter 16 Darwins Theory Of Evolution Answers:**

## Reviewing **Chapter 16 Darwins Theory Of Evolution Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Chapter 16 Darwins Theory Of Evolution Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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