

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.

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