

Biology – Chapter 16 Study Guide

16.1

- Darwin developed a scientific theory of biological evolution that explains how modern organisms evolved over long periods of time through descent from common ancestors.
- Darwin noticed that (1) different, yet ecologically similar, animal species inhabited separated, but ecologically similar, habitats around the globe; (2) different, yet related, animal species often occupied different habitats within a local area; and (3) some fossils of extinct animals were similar to living species.

Vocabulary: Evolution, Fossil

16.2

- Hutton and Lyell concluded that Earth is extremely old and that the processes that changed Earth in the past are the same processes that operate in the present.
- Lamarck suggested that organisms could change during their lifetimes by selectively using or not using various parts of their bodies. He also suggested that individuals could pass the acquired traits on to their offspring; enabling species to change over time.
- Malthus reasoned that if the human population grew unchecked, there wouldn't be enough living space and food for everyone.
- In artificial selection, nature provides the variations, and humans select those they find useful.

Vocabulary: Artificial Selection

16.3

- Natural selection occurs in any situation in which more individuals are born than can survive, there is natural heritable variation, and there is variable fitness among individuals.
- According to the principle of common descent, all species – living and extinct – are descended from ancient common ancestors.

Vocabulary: Adaptation, Fitness, Natural Selection

16.4

- Patterns in the distribution of living and fossil species tell us how modern organisms evolved from their ancestors.

Glencoe Biology Workbook Answers

J Ma



Glencoe Biology Workbook Answers:

The book delves into Glencoe Biology Workbook Answers. Glencoe Biology Workbook Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Glencoe Biology Workbook Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Glencoe Biology Workbook Answers
 - Chapter 2: Essential Elements of Glencoe Biology Workbook Answers
 - Chapter 3: Glencoe Biology Workbook Answers in Everyday Life
 - Chapter 4: Glencoe Biology Workbook Answers in Specific Contexts
 - Chapter 5: Conclusion
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