

CHAPTER 15

Study Guide

Section 2: Evidence of Evolution

In your textbook, read about the fossil record.

Match the description in Column A with the term in Column B.

Column A

- _____ 1. show that the species present on Earth have changed over time
- _____ 2. thought to be the ancestor of birds
- _____ 3. are newly evolved features such as feathers
- _____ 4. are traits shared by species with a common ancestor
- _____ 5. thought to be the ancestor of armadillos

Column B

- A. glyptodont
- B. ancestral traits
- C. fossils
- D. derived traits
- E. dinosaur

In your textbook, read about comparative anatomy and comparative biochemistry.

Complete the table by checking the correct column(s) for each description.

Description	Homologous Structure	Analogous Structure	Vestigial Structure	Comparative Biochemistry
6. Modified structure seen among different groups of descendants				
7. Eyes in a species of blind fish				
8. DNA and RNA comparisons that might indicate evolutionary relationships				
9. Bird wings and butterfly wings that have the same function but different structures				
10. A body structure that is no longer used for its original function but that might have been used in an ancestor				

Study Guide, Section 2: Evidence of Evolution continued

In your textbook, read about geographic distribution and types of adaptation.

If the statement is true, write true. If the statement is false, replace the italicized term or phrase to make it true.

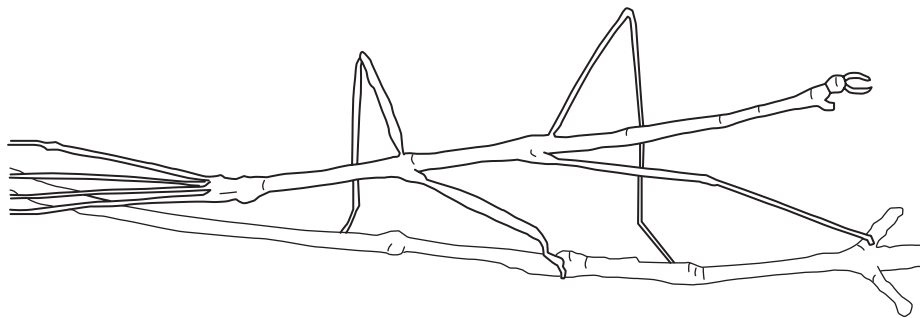
11. Evolutionary theory predicts that species respond to similar *environments* in similar ways.
-

12. *Geographic distribution* is the study of the distribution of plants and animals on Earth.
-

13. Similar environments can lead to the *evolution* of similar animals, even if they are not close relatives.
-

14. Traits that enable individuals to survive or reproduce better than individuals without those traits are called *reproduction*.
-

15. Mimicry involves a harmless species that has evolved to closely resemble a *beneficial* one.
-



16. The type of morphological adaptation shown in the picture above is *camouflage*.
-

17. Mimicry and camouflage are morphological adaptations that increase a species' *fitness*.
-

18. *Antibiotic resistance* is a form of adaptation that causes some diseases to come back in more harmful forms.
-