



Name

Period

Date

SECTION
10.4

EVIDENCE OF EVOLUTION
Study Guide

KEY CONCEPT

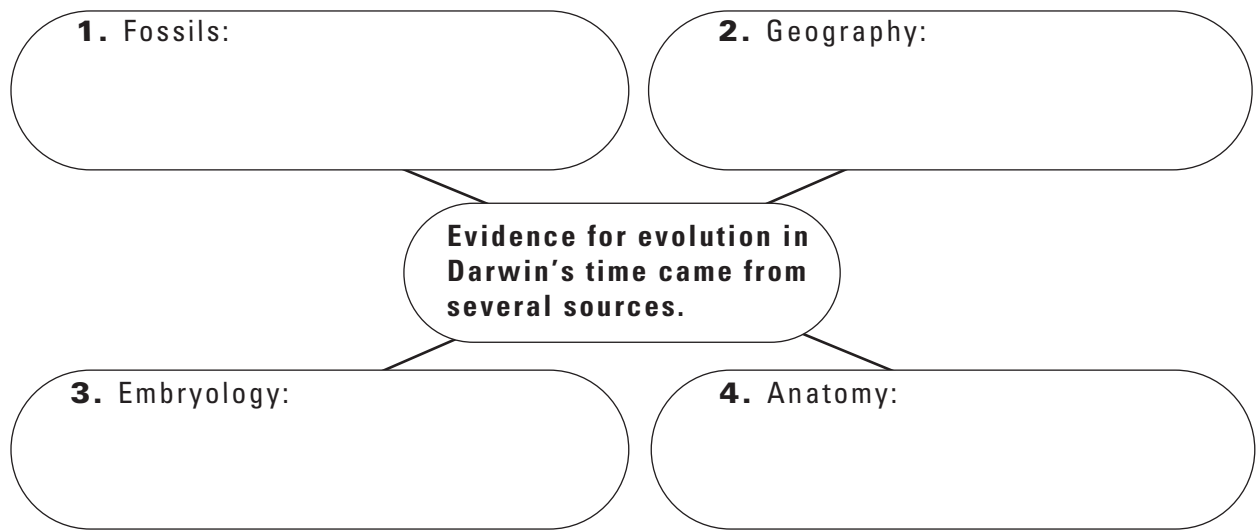
Evidence of common ancestry among species comes from many sources.

VOCABULARY

biogeography	analogous structure
homologous structure	vestigial structure

MAIN IDEA: Evidence for evolution in Darwin's time came from several sources.

In the diagram below, give examples of each type of evidence for evolution.



MAIN IDEA: Structural patterns are clues to the history of a species.

5. Vestigial structures seem to lack any useful function, or are at least no longer used for their original purpose. Give three examples of vestigial structures.

6. Many modern whale species have vestigial pelvic and leg bones. What does this suggest about the ancestry of modern whales?

Section 10.4 STUDY GUIDE CONTINUED

Vocabulary Check

homologous structure

analogous structure

vestigial structure

- _____ 7. Feature that is similar in structure in different organisms but has different functions
- _____ 8. Feature that performs a similar function in different organisms but is not similar in origin
- _____ 9. Is *not* evidence of a common ancestor
- _____ 10. Remnant of an organ or structure that had a function in an early ancestor
- _____ 11. Examples include the wing of a bat and the hand of a human
- _____ 12. Examples include the wing of a bird and the wing of an insect
- _____ 13. Examples include the wing of an ostrich and the appendix of a human

Sketch it Out

Use Figure 10.11 to sketch a skeleton of a human hand next to the whale fin skeleton shown below. Draw lines to match the groups of bones that are homologous for these two structures.

