

Name _____ Period _____ Date _____

Chapter 10.4 Evidence for Evolution

Key Concept: *Evidence of common ancestry among species comes from many sources.*

- What key titles, diagrams, vocabulary words and captions stand out to you?

Reading Questions:

1. What are the four pieces of evidence Darwin used to support his theory of evolution?

2. What evolutionary concept did finding fossils support?

3. How did geography play a key role in evolution of the organisms migrating from the South American mainland to the Galapagos Islands according to Darwin?

4. What strange feature does the embryos of fish, birds, reptiles, and mammals (including humans!) have?

5. What does the development of similar features in embryos of different organisms suggest about the ancestry of those organisms?

6. Define *homologous structure*. Give an example of a homologous structure between two organisms.

7. Define *analogous structure*. Give an example of an analogous structure between two organisms.

8. Define *vestigial structure*. Give an example of a vestigial structure.

Chapter 10.5 Evolutionary Biology Today

Key Concept: *New technology is furthering our understanding of evolution.*

- What key titles, diagrams, vocabulary words and captions stand out to you?

1. What is *paleontology*?

2. How does the study of genetics and molecular biology support Darwin's theory of natural selection?

3. Describe in your own words how evolution unites all field of biology.
