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**Chapter 17.4: Evidence of Evolution**

1.What is *biogeography*? How is it useful for identifying evolutionary relationships?

2.What two biogeographical patterns in the distribution of fossils and living species provide evidence for Darwin’s theory?

3.How old is the Earth? What evidence did science use to determine the age of the Earth?

4.What are *homologous structure*s? How are they explained by Darwin’s theory?

5.Compare *analogous structures* to *homologous structures*.

6.What is a *vestigial structure*? How does it provide evidence of evolution?

7.Why are similar patterns of embryological development important to Darwin’s theory?

8.Why didn’t Darwin present genetic and molecular evidence for his theory?

9.What evidence does genetics and molecular biology provide to support Darwin’s theory?

10.Why are Hox genes evidence of common ancestry?

11. Peter and Rosemary Grant study Galapogos finches. What happened to the finches during a drought and how does this support natural selection?