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Evolution Review Guide (covers chapters 15 through 18 in your book)

1. Define the following:

a. biodiversity-

b. natural selection-

c. mutation-

d. adaptation-

e. species-

f. genetic variation-

g. speciation-

2. Define the three types of reproductive isolation and give an example of each.

3. Describe what Darwin concluded about the finches he saw on the Galapagos Islands.

4. What is the main difference between natural selection and selective breeding?

5. List all the evidences of evolution.

6. What are homologous body structures?

7. What are atavisms and vestigial structures?

8. How can you tell on a phylogenetic tree which organisms are more closely related?

9. How does recombination affect evolution?

10. Define observation and inference. Give an example of each.

11. Describe the theories of evolution that the following individuals came up with:

a. Jean-Baptiste Lamarck

b. Alfred Wallace

c. Charles Darwin

12. What did Carl Linneaus discover?

13. How do scientists determine the age of rocks and fossils?

14. What are the three conditions necessary for natural selection?

15. Name the classification groups in order from largest to smallest.