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Chapter 6.1 Darwin's Theory

Page 172: What was Darwin's job on the Beagle? What did he notice between the things he saw on the trip and those in England?

Page 172-173 figure 1; after leaving South America where did the Beagle go?

Page 173: what were Darwin's important observations?

Page 173: what did Darwin discover about the diversity of animals? Give examples of what he saw.

Page 173: why was Darwin surprised at the fossils he studied?

Page 174: what was Darwin surprised about when he studies the creatures on the Galapagos Islands?

Page 174: what was Darwin's hypothesis about why animals from South America were similar yet had differences than the animals from the Galapagos?

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Page 174: figure 2 In what other ways are the iguanas different?

Page 175: what did Darwin notice when he traveled between the Galapagos islands?

Page 175: what is an adaptation? How are the beak sizes of the finches considered an adaptation?

Page 175: figure 3: identify some specific differences in these finches' beaks.

Page 176: what did Darwin do after his trip?

Page 176: How did Darwin explain what he saw on the Galapagos islands?

Page 176: why is selective breeding similar to what Darwin was seeing on the islands?

Page 177: What book did Darwin write to communicate his findings? Explain natural selection in your own words.

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Page 177: why do species produce a large number of offspring? Which ones survive?

Page 177: what is variation how might it help in organism survive?

Page 177: figure 5: what adaptations might help young sea turtles survive?

Page 178: describe competition

Page 179: how does the environment "select" organisms with helpful traits?

Page 179: how can environmental change lead to selection? Explain through monkey-flower.

Page 180: what is the connection between genes and natural selection?