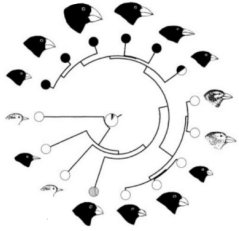


### 8.3 PATTERNS OF EVOLUTION p. 341

Explain **adaptive radiation**.

What causes adaptive radiation happen.



The colonizing finch of an island faced stabilizing selection on the mainland. Explain.

Once the finch arrived at the mainland, over two million years it evolved into at least 15 different species of finch. Explain how adaptive radiation would have happened.

How is the adaptive radiation of cichlid fishes similar to the Galapagos finches?

Divergent evolution leads to two predictable outcomes...

- 1.
- 2.

**Convergent evolution** is observed amongst different lineages. It is the evolution observed of

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### 8.5 MACROEVOLUTION p. 348

Macroevolution is

What is thought to be the cause of the mass extinction that caused the extinction of most dinosaurs 65 million years ago?

Briefly discuss the differences between the theory of gradualism and the theory of punctuated equilibrium.

### 8.7 HUMAN EVOLUTION p. 359

Primates

The common ancestor of primates dates back

Based on figure 2, humans are most closely related to which other primate?

Modern humans evolved around

Discuss how cultural practices influenced evolution of humans

