

## Marooned in the Galapagos

- I. Scenario: Trip to the Galapagos to Learn about Evolution and Adaptation via Natural Selection
- II. Life on a Desert Island
  - a. The Galapagos Islands
  - b. Climate
  - c. Island Variation
  - d. In-Class Survival Exercise (part 1)
- III. What are Penguins Doing at the Equator? - The Galapagos Penguin
  - a. Where do the Galapagos organisms come from?
  - b. How do organisms get to the Galapagos?
- IV. Shipwrecked – How to Survive on a Desert Island
  - a. Land Iguanas
  - b. Marine Iguanas
  - c. Speciation by divergence of land and marine iguanas
  - d. In-Class Survival Exercise (part 2)
- V. Relationships among Species – Coevolution of Giant Tortoises and Cacti
  - a. The Giant Tortoise – Testudo
  - b. Prickly Pear Cactus – Opuntia
  - c. Coevolution of predator and prey
- VI. It's a Cinch to Be a Finch
  - a. Adaptive Radiation in a New Environment - Beak Structure and Function
  - b. Natural Selection in Action – Variation in Beak Size and Shape – Does It Matter?