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- 1a. Three general kinds of observations that Darwin made during the voyage of the Beagle were; the diversity of living things, fossils, and the characteristics of organisms on the Galapagos Islands.
- 1b. The Galapagos iguanas had large claws that allowed them to grip slippery rocks. The South American iguanas had smaller claws that were used for climbing trees.
- 1c. An adaptation is a trait that helps an organism survive and reproduce; Galapagos iguanas have claws that enable them to cling to rocks to eat seaweed. South American iguanas have claws that enable them to cling to trees to eat leaves.
- 2a. Darwin hypothesized that the species changed over many generations and became better adapted to their new conditions.
- 2b. Selective breeding supports Darwin's hypothesis because just like natural selection, selective breeding changes a species' traits over many generations.
- 3a. Variation is any difference between individuals of the same species. Natural selection is the process by which individuals that are better adapted to their environment are more likely to survive and reproduce than other members of the same species.
- 3b. Variation and natural selection work together to help cause evolution because, with variation, members of