



Variation Among Tortoises Darwin observed that the characteristics of many animals and plants varied noticeably among the different Galápagos Islands. Among the tortoises, the shape of the shell corresponds to different habitats. The Hood Island ortoise (right) has a long neck and a shell that is curved and open around the neck and legs, allowing the tortoise to reach the sparse regetation on Hood Island. The tortoise from Isabela Island (lower left) has a dome-shaped shell and a shorter neck. Vegetation on this sland is more abundant and closer to the ground. The tortoise from Pinta Island has a shell that is intermediate between these two forms.

Natural Selection & Artificial Selection

 Natural variation--differences among individuals of a species

 Artificial selection- nature provides the variation among different organisms, and humans select those variations they find useful.

Evolution by Natural Selection

 The Struggle for Existence-members of each species have to compete for food, shelter, other life necessities

 Survival of the Fittest-Individuals better suited for the environment more likely to live to pass on inheritable traits

Evolution- Cumulative change in a species over time