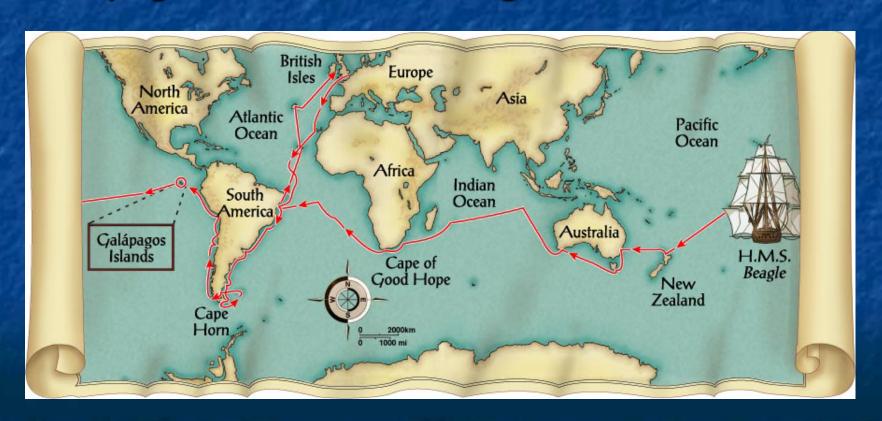
Evolution Intro: The Puzzle of Life's Diversity

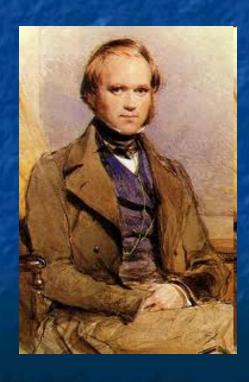
Essential Questions:

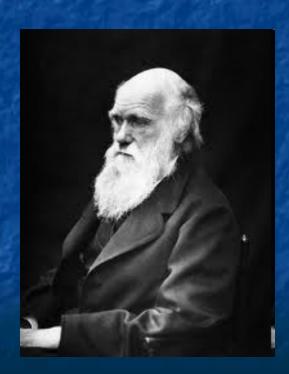
- What was Charles Darwin's contribution to science?
- What patterns did Darwin observe in the Galapagos Islands?
- What contemporary ideas shaped Darwin's thinking?

■ Voyage of the *HMS Beagle* – 1831 - 1836



- Darwin's observations
 - Patterns of diversity
 - Plants/animals well-suited to environment
 - Similar environments on different continents





Living organisms & fossils





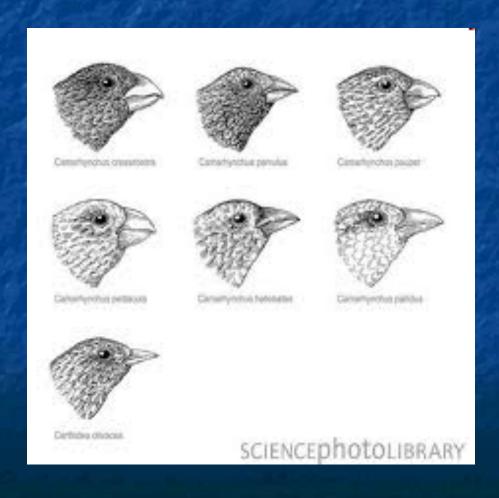


- The Galapogos Islands
 - Tortoises
 - Low islands/ long necks
 - High islands/short necks



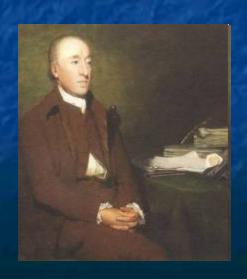


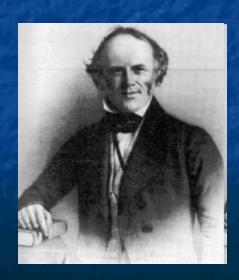
- Finches
 - Beak shape
- The journey home



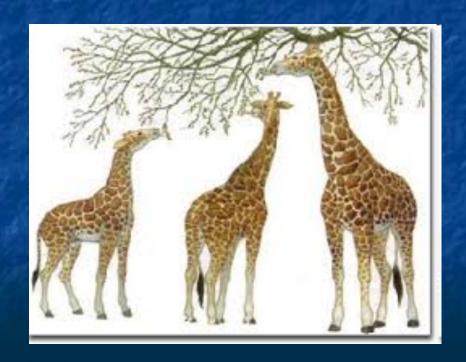
Ideas that shaped Darwin's thinking

- An ancient, changing Earth
 - Hutton
 - Lyell





- Lamarck's Theory of Evolution
 - Tendency toward perfection
 - Use and disuse
 - Inheritance of acquired traits
 - Evaluating Lamarck's theory



- Population growth
 - Thomas Malthus 1798
 - Darwin:
 - struggle for existence

