**Instructions:**

* Open the presentation.
* Interact with it.
* Answer the “Questions to answer”.
* Make sure you understand the “Things you should make sure you understand”.
* Feel free to view the “Supplementary Resources”.
* Write down any questions that you have about the material.

**Questions to answer:**

1. Explain how the work of the following folks contributed to the development of the Theory of Natural Selection”
   1. Thomas Malthus
   2. Georges Cuvier
   3. Charles Lyell
2. Explain how evolution as it was conceived of by Jean-Baptiste Lamarck differs from Natural Selection.
3. Draw a diagram illustrating the process of natural selection.  Make sure your diagram includes all of the following features:
   1. Overproduction of offspring
   2. variation among individuals
   3. limited resources
   4. competition
   5. differential reproductive success (“fitness”)
   6. adaptation
4. Explain how each of the following demonstrate Darwinian selection.  For each, indicate the source of selection, the criteria that determines fitness in the environment, and the end result of the selective process:
   1. Artificial selection
   2. Galapagos finches
   3. The evolution of resistance in a population of insects or bacteria (you pick).
5. How has modern science refined our understanding of evolution since Darwin/Wallace’s publication?

**Things you should make sure you understand:**

**(feel free to ask questions about them in class)**

* How the work of Charles Darwin was shaped by the contributions of other scientists from a variety of disciplines, and the events of his life.
* How evolution suggests an ancient Earth, and common ancestry of all living things, and how these two thoughts are, in turn, supported by a wide variety of evidence.
* Why evolution is still so controversial in certain parts of American society.