**Biology 10/26/16 Mrs. Schelhorn**

**Ecology Project: Individual**

The following content must be included in your project, which can be a poster, power point, a story book, a series of labelled diagrams or pictures, or paper:

1. Select a species of any organism you would like to research.
2. Include the common name and its scientific name, Genus species
3. Construct a cladogram to include at least 7 other organisms by name, including a common ancestor. Show how all organisms are related and the key trait or traits that separates each branch.
4. Show at least one speciation event
5. On a different part of the presentation, list another organism with homologous structure(s) and show or explain their recent common ancestor
6. List a third organism which demonstrates an analogous structure to your organism.
7. Explain a part of the biogeographic history of your species from an ancient ancestor.
8. Compare your species to two others from your cladogram, showing/explaining which ones are more closely related by structural similarities, fossil structures or DNA homology