Due Feb. 10

EVOLUTION OUTLINE

I. Provide current information about your species
   a. What is the scientific name (*Genus species*) of your organism?
   b. Where does it live?
   c. What makes it uniquely adapted to its current environment or circumstances? Be brief.
   d. Show a picture of what it looks like

II. Provide information about an ancestor of your species
   e. What is the scientific name of an ancestor of your species? Provide a picture.
   f. How long ago did this ancestor live? Where have its fossils been found?
   g. What epoch (e.g., Jurassic, Triassic, Cretaceous...) did this ancestor live/evolve in?
   h. Provide an evolutionary tree that shows the developmental history for the origin of your organism with the time frame clearly shown. If possible, provide a tree with your specific ancestor.

III. Link your species to its ancestor
   i. What features do these two species have in common? Provide possible explanations for these similarities.
   j. What features of these two species are different? Provide possible explanations for these differences.

IV. Link your species to a living relative
   k. What is the scientific name of a living relative of your species? Provide a picture.
   l. What features does this living relative have in common with your species? What features are different?
   m. Provide a phylogenetic tree/cladogram that shows the relationships between your species and its living relatives.

V. Natural selection and evolutionary fitness
   n. What are some of the environmental factors, such as competition, habitat, defense, etc., that drove the evolution of your organism?
   o. What types of physical or biological factors provide this creature with the ability to survive?

NOTE: You are required to provide at least TWO evolutionary trees in your presentation: if you cannot find adequate trees for your specific species, then you need to create them to reflect the literature you used to answer the question.