1. Explain how each of the following specifically support some aspect of evolutionary theory:
   1. The fossil record (generally)
   2. Transition fossils (specifically)
   3. Homologous anatomical structures
   4. Analogous anatomical structures
   5. Vestigial anatomical structures
   6. Comparative embryology
   7. Molecular Homology (DNA and proteins)
   8. Artificial Selection
   9. Biogeography
   10. Observed Evolution (pick one)
2. Explain the concept of teleology and why it is contradicted by evolutionary biology.  Provide three examples of evidence that directly contradict teleological thinking.

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

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

* How the major aspects of evolutionary theory are similar to all other scientific thoughts in terms of how they have developed, and how they depend upon evidence.