Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lab Period/Time: \_\_\_\_\_\_\_\_

/Pts

**Preview for Lecture Assignment**

**#5: Building the tree**

1. Work through the webpage: <http://evolution.berkeley.edu/evolibrary/article/evo_08>

../Screen%20Shot%202017-05-17%20at%209.20.38%20AM.png

* You can use the direct links below or the tool bar on the right hand side of the page to navigate through the Patterns Links.

1. **The family tree**: <http://evolution.berkeley.edu/evolibrary/article/evo_04>
   * Zoom in on Animalia and then Vertebrata.
   * How are the animals grouped?
   * What are phylogenetic trees? (*Include the word hypothesis).*
2. **Understanding phylogenies** (part 1 and part 2 – Link at the lower right part of the page to get to part 2): <http://evolution.berkeley.edu/evolibrary/article/0_0_0/evo_05>
   * What is a common ancestor? And where can you find one on a phylogenetic tree?
   * What is a clade?
3. **Trees, not ladders (part 1&2) :** <http://evolution.berkeley.edu/evolibrary/article/evo_07>
   * What is wrong with the idea of ladders?
   * Interpret this statement: *“Humans did not evolve from chimpanzees."*
4. **Building the tree:** http://evolution.berkeley.edu/evolibrary/article/0\_0\_0/evo\_08
   * How do you use shared derived characteristics to build a tree?
5. **Homologies and analogies:** http://evolution.berkeley.edu/evolibrary/article/0\_0\_0/evo\_09
   * What is a homology and how is it helpful?