**Lab Unit 6 – Phylogeny: Classification and Assessing Relatedness**

**Post-Lab Assignment**

**Instructions:** Follow the directions in the Post-Lab section for Lab Unit 6.

1. Using the characters in Table 6-3, construct a cladogram for the **Vertebrate** Groups and insert below:
	1. Make sure you label all the appropriate parts of a cladogram, including all group names, outgroup, ingroup, shared primitive character, and all derived characters.
	2. Provide the reasoning behind the construction of your cladogram.
2. Complete Table 6-4 on page 112 in your lab manual and watch the **Great Transitions: Origin of Birds** video on the Lab Website. Discuss the similarities and differences between **Non-Avian Reptiles**, **Birds**, **Archaeopteryx**, and **Dinosaurs**. Based on this, why are birds no longer considered a separate Class.