**Questions to answer:**

1. What is binomial nomenclature? What makes up a scientific name?
2. What determines which domain an organism is in?
3. What factors determine which kingdom an organism is in?
4. Why has the old “Kingdom” system proved to be impractical?
5. How has DNA technology changed the way that classification is done?
6. Explain the relationship between taxonomy and phylogeny.

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

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

* How the Linnaean Hierarchy is used to classify organisms.
* How organisms are classified using binomial nomenclature.
* How to properly write an organism’s scientific name.
* How to make and read a cladogram.
* The ideas of maximum parsimony and maximum likelihood.
* The differences between mono-, poly-, and paraphyletic groups in a phylogenetic tree.