

## **Study Guide for the Living World:**

**Your test is on Wednesday, October 8 2014.**

### **Ecosystems (chapter 10)**

- Do you understand the difference between human and natural disturbances?
- Can you explain and interpret how certain factors can disturb the ecological balance of a community?
- Can you describe the trophic levels (producers (autotrophs), consumers (heterotrophs), decomposers) in an ecosystem?
- Can you analyze or create a food web and describe the impact of various disturbances to the ecosystem?

### **Populations and Communities (chapter 9)**

- What is a population?
- Can you estimate the size of any given population using each of the following formulas?
  - Mark and recapture
  - Counting by Sample Area
- Can you calculate population density?
- What are the three different types of population distributions?
- How do ecological factors (abiotic, biotic and limiting factors) affect populations within a given community?
- What are biological cycles? Could you create or recognize a graph demonstrating how a biological cycle works?
- What is biodiversity? Can you analyze the biodiversity of a community by measuring the species richness and relative abundance?
- What are the four main interactions within a community?
  - Could you explain these interactions? Could you recognize each of these interactions?
  - Do you know the difference between intraspecific and interspecific competition is?
  - What is parasitism?

**Good Luck Everyone! ☺**