**Questions to answer:**

1. Explain the major differences between ectothermic and endothermic animals.
2. What are the sources of heat in an organism?
3. How is heat exchange controlled between an organism and its environment?
4. Compare how metabolism is measured in ectotherms and endotherms.
5. Why do smaller endotherms require more energy per unit of mass than larger endotherms?
6. Compare the advantages and disadvantages of endotherms and ectotherms.
7. How do energetic considerations affect life history strategies (e.g. reproduction)?
8. How do energetic considerations affect the structure of populations?  communities? Ecosystems?

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

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

* The utility of the heat exchange adaptations shown in the presentation.
* The fundamental role that energetic strategies play in determining organism physiology, anatomy, and behavior.
* The ways that the laws of thermodynamics affect all levels of biological systems.