**Nervous System Study Guide**

* What are the functions of the nervous system?
* Know how the nervous system is divided (the flow chart is a good resource).
* What makes up the CNS? What makes up the PNS?
* How are an oligodendrocyte and a Schwann cell similar?
* Know the **parts** of a typical neuron and their functions.
* Know how an action potential (nerve impulse) is generated and sent down an axon. Consider the following things:  
  + What is polarization?
  + What is the resting potential of a neuron?
  + Important ions? Where are they when the neuron is at rest?
  + What causes depolarization?
  + What causes repolarization?
* What is the function of the meninges?

* What are the parts of the reflex arc in order?

* How are neurons classified based on their function?

* What does a multipolar, bipolar, and unipolar neuron look like?
* What is the role of myelin in nerve impulse conduction?
* What is the difference between neurons and neuroglial cells?
* What is the role of neurotransmitters in nerve impulse conduction?
* Be able to label the parts of the brain – on a picture and on your sheep brain.
* Be able to label the parts of a typical neuron (think about the neuron that you assembled and colored).
* Know the cranial nerves in order and the major functions of each (use your cranial nerve cheat sheet).
* Know the functions of the following parts/what would happen if that part was not functioning properly  
  + Medulla Oblongata-
  + Pons-
  + Midbrain-
  + Corpus callosum-
  + Cerebellum-
  + Thalamus-
  + Hypothalamus-
  + Lobes of the cerebrum  
    - Frontal-
    - Parietal-
    - Temporal-
    - Occipital-