**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-