Unit 10 – Animal Form & Function Study Guide - AP Biology

* Key Vocabulary to know, be able to use, and/or recognize
	+ Endotherm, Ectotherm, poikilotherms, homeotherms, Symaptheic nervous system, Parasympathetic nervous system, all-or-none response, circadian rhythm, norepinephrine, peristalsis, fibrinogen, positive feedback, negative fceedback, receptor, transduction, response, ligand, G-protein
* Digestive System
	+ Know the purpose of each organ in the digestive system
	+ Be able to recognize what each organ in the system is from an image
	+ Know what enzymes are used for digestion and where each can be found
		- Know if unactivated or activated
	+ Purpose of saliva and villi
	+ Know where fats, proteins, and carbs are digested
* Nervous System
	+ Know each part of the brain and its purpose
	+ Be able to recognize and know what is the purpose of the action potential graph (showing membrane potential vs time)
	+ Know the steps of the action potential and the movement of the ions that create this potential
	+ Difference between PNS and CNS
	+ Types of neurons and their purpose
		- Movement of a stimulus through those types of neurons
* Endocrine System
	+ Each of the hormones given, the purpose of each, where they are produced/what they activate
	+ Difference between anterior and posterior pituitary gland
	+ Differences between steroid and protein hormones
* Excretory System
	+ Know the purpose of each organ in the excretory system
	+ Be able to recognize what each organ in the system is from an image
	+ Know/Identify the parts of a nephron and their purpose
	+ How does the excretory system maintain water levels in organisms
	+ types of organisms and their type of nitrogenous wastes
* Respiratory System
	+ Know the purpose/recognize parts of the respiratory system
	+ How do some organisms breath through their skin
	+ How does the body stop food from enter the lungs
	+ How does an organism stop dust from entering the lungs
	+ Difference between fetal hemoglobin and adult hemogloin
* Circulatory System
	+ Be able to recognize what each part of the heart from an image
	+ Know the purpose of each part of the heart
	+ Know/recognize the areas of deoxygenated and oxygenated blood
	+ Movement of blood in general through body
	+ What are the components of blood and their purpose
	+ What causes a heart murmur
	+ How does blood make it back to the heart with a lack of pressure after reaching capillaries
	+ How is the lub-dub sound in the heart beat created
	+ Blood pressure measurements (systolic vs diastolic)
	+ Differences between open and closed circulatory systems
	+ What affects hemoglobins affinity for oxygen
	+ Arteries vs. veins
* Immune System/lymphatic system
	+ Where are immune cell produced
	+ What types of cells are there and what is the purpose of each
	+ Specific and nonspecific defenses of the immune system
		- Layers of nonspecific responses
	+ Difference between primary and secondary response
	+ Active immunity vs passive immunity
* What happens when you are being chased by a bear?
* Why can some organisms have gastrovascular cavities but other organisms cannot have them?
* How does an organism increase its body temperature
* How does human blood maintain a healthy pH? How is pH affected by changes in oxygen and carbon dioxide levels? How does an increase in CO2 cause an issue?



