Cardiovascular System Study Guide

* Blood
	+ 3 types of blood cells and their functions
		- Scientific names?
	+ What are the components of blood?
	+ What does plasma consist of?
	+ If you centrifuge a sample of blood, what’s on the top? The bottom? Label all layers.
	+ Blood types
		- What makes you a certain blood type?
		- What antigen/antibody does each blood type have?
		- What is the universal donor?
		- Universal receiver?
		- What does it mean to be Rh+/Rh-?
			* Why can there be a problem for pregnant women?
* Heart rate- how is it recorded?
* Blood pressure- what is it?
	+ Systole and diastole
	+ Hypertension vs. hypotension
	+ Sphygmomanometer
* 2 divisions of the cardiovascular system
	+ Pulmonary- what does this involve?
	+ Systemic- what does this involve?
* Anatomy of the heart
	+ Know these structures: aorta, right atrium, right ventricle, aorta, pulmonary veins, pulmonary artery, coronary artery/vein, RAT, LAMB, septum, semilunar aortic valve, semilunar pulmonary valve, left atrium, left ventricle, inferior vena cava, superior vena cava
	+ Pericardium
	+ Pericardial cavity
* How does the blood flow through the heart? Make sure you can go in order from the vena cava to the end point.
* Functions of the cardiovascular system
* 3 types of blood vessels
	+ Arteries- characteristics and appearance
		- Arterioles
	+ Veins- characteristics and appearance
		- Venules
	+ Capillaries- characteristics
* Myocardial infarction
* Where does a heart beat sound come from?
* Contraction
	+ SA node= pacemaker
	+ AV node
	+ Electrocardiogram
		- QRS wave