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