Lab 3: The Heart

The Heart	pp. 175-181, p.182 questions 6-8, 10-14, 16
Electrocardiogram	pp. C47-49, p. C49 questions 1-3

Fetal Pig

-Locate the heart in your pig and identify *left and right atrium, left and right ventricle, superior* and inferior vena cava, aorta (aortic arch), **ductus arteriosus (arterial duct)**

-Be sure you can trace the flow of blood in the fetal heart compared to an adult heart (see pg. 160 & 162 for reference)

-What is the purpose of the arterial duct in fetal pigs/humans?

Pg. 175-178 The Heart (Use your book and the calf heart)

-Be able to identify all the structures of the heart listed in the diagrams using your calf heart

-Trace the flow of blood from when it enters the heart from the vena cava until it leaves through the aorta

-Use your probe to explore the heart chambers and how blood enters and leaves the chambers

-Read and be able to explain how the muscles in the heart execute contractions and how the signal travels within the heart

-How does a heart attack affect the path of the signal within the heart?

Pg. 179-180 Heartbeat

-Read about methods for determining your heartbeat

-Understand the difference between systolic and diastolic when talking about blood pressure and your heart

-Measure your *resting* heartbeat using the stethoscope and pulse-rate method

-repeat the pulse-rate method for determining your heartbeat after exercising

-What are some other reasons why your heartbeat may increase?

Pg. 180-181 Blood Pressure

-Read about blood pressure and ways for measuring

-Take your blood pressure using cuffs *before* and *after* exercise and then compare your systolic and diastolic readings to normal readings

-Besides exercise, what are some factors that influence your blood pressure?

Pg. C47-49 Electrocardiogram

-Read about the electrocardiogram and how it measures the electrical current in your heart

-Understand what each type of wave represents and the corresponding letter for the wave

-We will demonstrate the EKG (ECG) machine on 1 person

-We now have 3 different ways to look at cardio function- be sure to understand what each method is measuring and what may influence the results

DON'T FORGET ABOUT THE QUIZ NEXT WEEK!