

Sheep Heart Dissection Lab

- I. Prior to dissection:
 - A. Chromebook
 - a. Mrescience.com/Lab Stuff/ Mammalian Heart Guide
 - B. Glove up (required),
 - C. Required Tools
 - a. Dissecting tray
 - b. Scalpel
 - c. Metal probe (2 per group)
 - D. Sheep heart
- II. Heart Dissection
 - a. Place the heart on the dissection tray with the VENTRAL SIDE visible – (remember, the ventral side has the large diagonal line (the coronary artery) visible and the Apex (bottom tip) facing down
 - b. Identify the following external structures:
 - i. Right Atrium, Right Ventricle, Left Atrium, Left Ventricle, Apex, Coronary Artery, Myocardium, Fat Tissue, Aorta, Superior Vena Cava, Inferior Vena Cava, Pulmonary Artery
 - c. Use the scalpel and slice the heart, almost in half, as shown in figure 3. Slice thru the middle of the right atrium across the top of the heart across to the left atrium. Continue the cut down the left atrium thru the left ventricle to the apex of the heart. Gentle pull open the heart exposing the internal structure. Continue slicing through the heart and stop at the outside wall of the right ventricle.
 - d. Place the heart with the internal structures exposed as in the figure 3 drawing.
 - e. Identify the following internal structures:
 - i. Left Atrium, Right Atrium, Left Ventricle, Right Ventricle, Apex, Septum, Myocardium, Aortic Semilunar Valve, Pulmonary Semilunar Valve, Tricuspid Valve, Bicuspid (Mitral) Valve, Chordae Tendineae
- III. Cleanup
 - a. Dispose of the heart in the manner described by your instructor
 - b. Rinse and wipe DRY the tools used
 - c. Rinse and wipe DRY the dissection tray
 - d. Remove your gloves and dispose

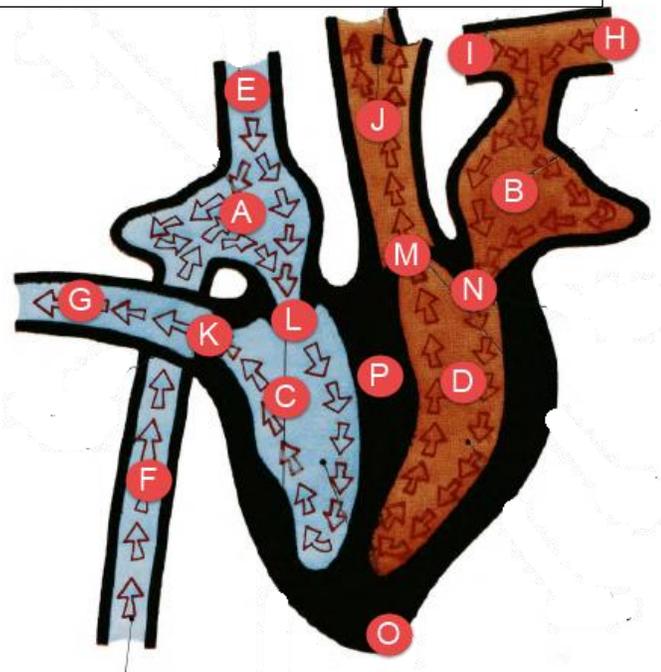
Name: _____ Period: _____ Date: _____

Use “The Illustrated Dissection Guide to the Mammalian Heart” to help complete the following drawings:

External Heart Diagram Label the following: Right Atrium, Right Ventricle, Left Atrium, Left Ventricle, Apex, Coronary Artery, Myocardium, Fat Tissue, Aorta, Superior Vena Cava, Inferior Vena Cava, Pulmonary Artery

Identify the structures in the pathway of blood flow:

- | | |
|----------|----------|
| A. _____ | I. _____ |
| B. _____ | J. _____ |
| C. _____ | K. _____ |
| D. _____ | L. _____ |
| E. _____ | M. _____ |
| F. _____ | N. _____ |
| G. _____ | O. _____ |
| H. _____ | P. _____ |



Name: _____ Period: _____ Date: _____

Internal Heart Diagram: Label the following: Left Atrium, Right Atrium, Left Ventricle, Right Ventricle, Apex, Septum, Myocardium, Aortic Semilunar Valve, Pulmonary Semilunar Valve, Tricuspid Valve, Bicuspid (Mitral) Valve, Chordae Tendineae