Heart Terms for the Laboratory Practical

External Anatomy:

• Anterior view
• Posterior view
• Right and left sides
• Base and Apex of heart
• Epicardium or visceral pericardium
• Anterior interventricular sulcus
• Coronary sulcus
• Right and left auricles
• Coronary sinus
• Superior and inferior venae cavae
• Aorta and Brachiocephalic arteries
• Pulmonary trunk

Internal Anatomy:

Right Side (Pulmonary side)                     Left Side (Systemic side)

• Right atrium with auricle                   • Left atrium with auricle
• Pectinate muscles (inside auricle)         • Pectinate muscles (inside auricle)
• Opening from coronary sinus                • Bicuspid (mitral) valve
• Fossa ovalis (foramen ovale in fetus)      • Chordae tendineae (tendinous cords)
• Tricuspid valve                             • Papillary muscles
• Chordae tendineae (tendinous cords)        • Pulmonic (pulmonary) semilunar valve
• Papillary muscles                           • Aortic semilunar valve
• Moderator band (septomarginal trabeculation) • Openings to coronary arteries
• Pulmonic (pulmonary) semilunar valve

Be sure to notice:

• Differences in thickness of the ventricular walls on right and left sides
• Myocardium, cardiac muscle or heart muscle
• Atrial septum and ventricular septum (pl. septa)
• Endocardium
• Differences in construction of valves on right and left sides
• Which side seems to be built for producing and containing higher blood pressures?
Dissecting the Sheet Heart

You will make five cuts to see the interior features of the sheep heart:

**Right Side of Heart:**

Cut 1: Insert the handle end of a probe into the superior vena cava and exit it through the inferior vena cava. Use your scissors to cut along the probe to open the right atrium.

Cut 2: Insert your left thumb into the right atrium and through the tricuspid valve. Insert your scissors along the right side of your thumb and cut along the ventricular septum to the bottom of the right ventricle and then pull the flap you have formed away from the septum and continue cutting an arc along the edge of the septum. Note the right side features listed on the other side of this sheet.

Cut 3: Insert the handle end of the probe up under the tricuspid valve and out the pulmonary trunk. Use your scissors to cut along the probe to expose the pulmonic semilunar valve.

**Left Side of Heart:**

Cut 4: Insert your left thumb into the left atrium and through the mitral valve. Cut along your thumb to the bottom of the left ventricle. Spread open the left side of the heart to expose structures. Note features listed on the other side of this page.

Cut 5: Insert the handle end of your probe under the mitral valve and out the aorta. Cut along the probe to expose the aortic semilunar valve. Be sure to note the openings to the two coronary arteries immediately above the semilunar valve cusps. Also note the branching brachiocephalic artery.