

## Exercise 30 Anatomy of the Sheep Heart Eighth Edition

### Objectives: 1-7

#### Gross Anatomy of the Human Heart

Know all bold terms in this section

Identify on the Heart (models, sheep heart, & figure 30.2):

aortic arch	left ventricle
ascending aorta	bicuspid valve (mitral valve)
pulmonary artery	tricuspid valve
coronary artery*	aortic semilunar valve
cardiac vein*	pulmonary semilunar valve
superior vena cava	endocardium
inferior vena cava	myocardium
apex, base	pericardium
right atrium& auricle	trabeculae carneae
left atrium& auricle	papillary muscles
right ventricle	chordae tendineae

\*not visible on sheep heart, know general location and function

Heart Chambers and Valves- know all bold terms and be able to identify on both sheep heart and models

Know Fig. 30.10 Anatomical Differences in the Ventricles\*\*\*\*

#### Pulmonary, systemic and Cardiac Circulation

Study figure 30.4 and be able to draw and label this diagram

Omit Cardiac Circulation

#### Microscopic Anatomy of Cardiac Muscle

You will be responsible for a cardiac tissue slide that depicts the following:  
intercalated discs, sarcolemma (the cell membrane), nucleus, striations

Know Fig. 30.7 Histology of Cardiac Muscle

#### Dissection of the Sheep Heart

Know bold terms

Be able to identify every thing from the list above on the sheep heart

**Extra Credit:** Try to identify the ligamentum arteriosum and the ductus arteriosus Know their functions.

#### Hints:

First learn the terms in the list above by studying the picture in your book fig 30.2

Second locate these structures on the human heart model

Third locate these structures on the sheep heart

-be able to trace the flow of blood from its entry into the heart in the right

atrium until it leaves the left ventricle.

- know the path of blood to and from the body and lungs to the heart
- know whether blood is oxygenated or deoxygenated in the chambers of the heart and the major vessel(s) leading into and out of the heart
- know the valve system
- draw yourself a picture to help you learn this