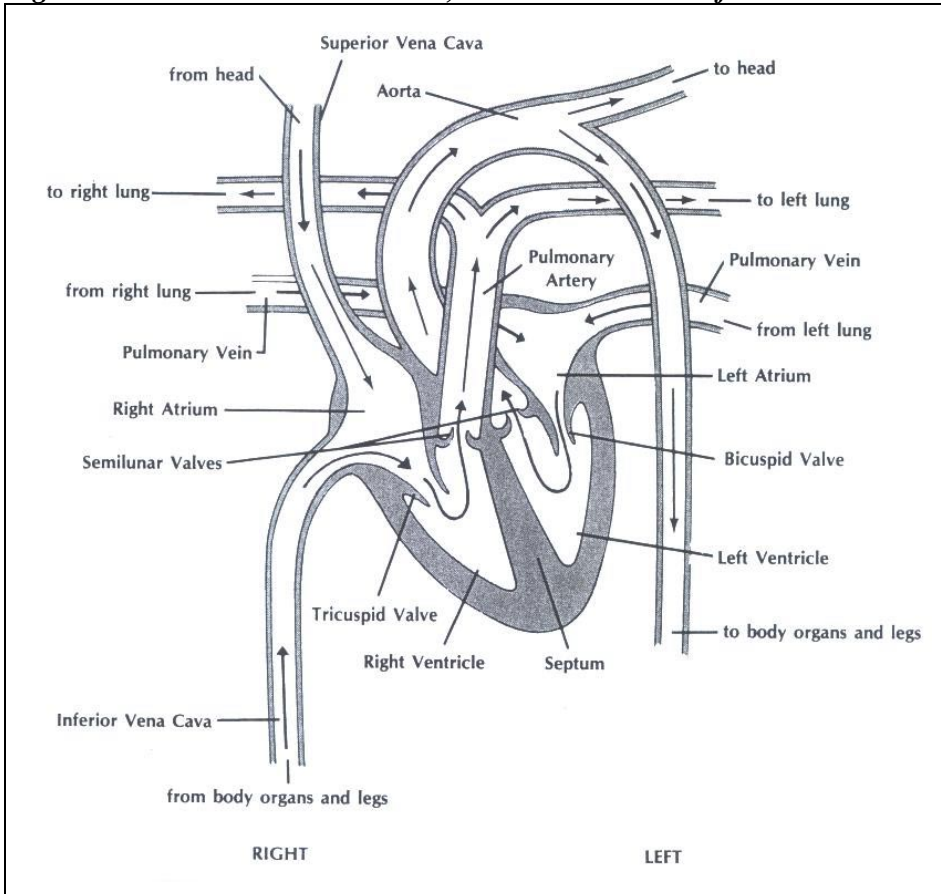


This worksheet will review some of the concepts covered in class in regards to the human heart. You will need to use your notes, the heart diagram we labeled in class along with Figure 1, below.

Lab adapted from *Investigating Living Systems Laboratory Manual*; Glencoe

Figure 1: Shaded areas are muscle; unshaded areas are filled with blood.



Answer the following:

The two receiving chambers for blood are the _____

The two discharging chambers for blood are the _____

The _____ separates the heart chambers.

Using Figure 1, answer the following:

The **LEFT** side of the heart **RECEIVES** blood **FROM** the _____

The **RIGHT** side of the heart **RECEIVES** blood **FROM** the _____

The **LEFT** side of the heart **PUMPS** blood **TO** the _____

The **RIGHT** side of the heart **PUMPS** blood **TO** the _____

In the table below, fill in whether the heart chamber/blood vessel listed contains oxygenated/deoxygenated blood

Heart Chamber or Blood Vessel	Oxygenated (O) / Deoxygenated (D)
Left Ventricle	
Right Ventricle	
Left Atrium	
Right Atrium	
Pulmonary Artery	
Pulmonary Vein	
Superior vena cava	
Inferior vena cava	
Aorta	

Use the table above along with Figure 1 to answer the following:

1. The blood in the **LEFT** side of the heart is **oxygenated/deoxygenated**. Why is this logical?

2. The blood in the **RIGHT** side of the heart is **oxygenated/deoxygenated**. Why is this logical?

3. Blood is changed from an oxygenated state to a deoxygenated state **OR** from a deoxygenated state to an oxygenated state in our circulatory system. Which change occurs in the.....

- Lung capillaries _____
 - Explain why: _____
 - _____
 - _____

- Body capillaries _____
 - Explain why: _____
 - _____
 - _____

4. Where does blood go **AFTER** it leaves the.....

Right atrium _____	Aorta _____
Left atrium _____	Superior vena cava _____
Right ventricle _____	Inferior vena cava _____
Left ventricle _____	Lungs _____
Pulmonary veins _____	Organs & legs _____
Pulmonary arteries _____	Head _____

5. Where did the blood come from **BEFORE** it entered the.....

Right atrium _____	Aorta _____
Left atrium _____	Superior vena cava _____
Right ventricle _____	Inferior vena cava _____
Left ventricle _____	Lungs _____
Pulmonary veins _____	Organs & legs _____
Pulmonary arteries _____	Head _____

6. What could happen if a heart valve did not work properly?

7. What is the difference between pulmonary and systemic circulation?