

The Heart - video worksheet

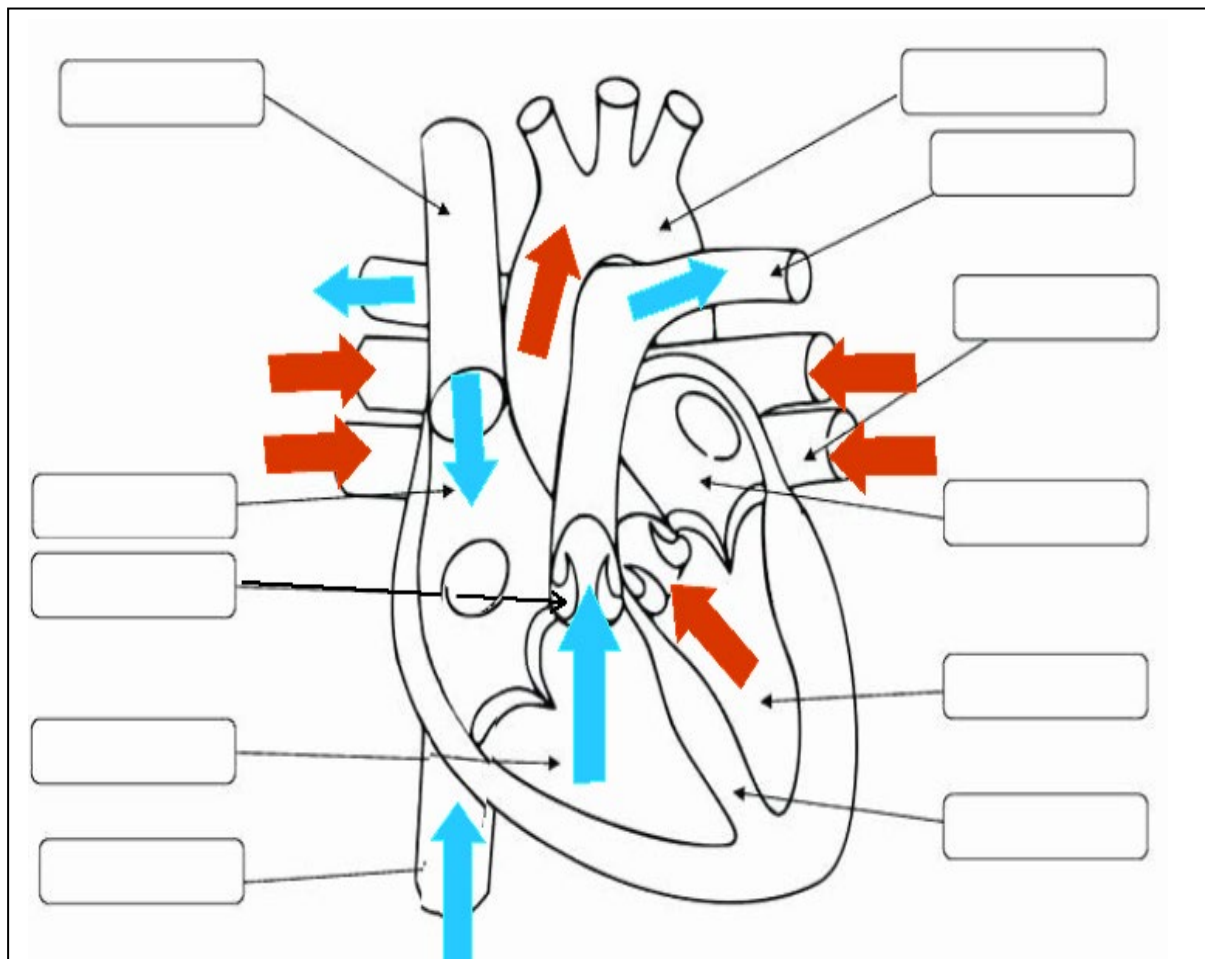


Figure 1

Label each structure shown above in the diagram. Red arrows indicate oxygenated blood and blue arrows indicate deoxygenated blood.

1. Complete the table below. The first one is done for you.

Structure	Form	Function
Aorta	<i>Thick walled blood vessel</i>	<i>Takes oxygenated blood from the right ventricle to the body.</i>
Vena Cava		
Right atrium		
Right ventricle		
Valve	<i>Flaps formed from connective tissue tide down to the heart muscle with tendons.</i>	
	<i>Thin walled blood vessel taking blood away from the heart.</i>	
Left atrium		
	<i>The most muscular chamber of the heart.</i>	
	<i>Thick walled artery</i>	<i>Contains deoxygenated blood</i>
Septum		

2. Veins vs Arteries vs Capillaries

a. Name the three types of blood vessels and describe their function.

i. _____

ii. _____

iii. _____

b. Which one of the three types of blood vessels has:

i. the thickest walls and carries blood at high pressure.

ii. the thinnest walls of all the different types of blood vessels.

iii. thin walls and requires skeletal muscle contraction to move blood through it .

3. Cardiac Cycle is divided into two parts Diastole and systole. Explain what happens in each part of the cardiac cycle.

• Diastole: _____

• Systole: _____

4. Describe one difference in the structure of the left and right ventricles and explain why this difference exists.

5. Which blood vessel is the only artery to carry deoxygenated blood?

6. Which blood vessel is the only blood vessel to carry oxygenated blood to the heart?
