

Year 9 - Circulation Revision

The Function of the Circulatory System.

Complete the blanks below:

The circulatory system is a system made up of the h____, the b____, and a huge network of blood vessels.

_____ and _____ are needed for respiration and are transported to the body's cells.

_____ is the waste gas produced by respiration that must be carried **away from** the body's cells.

The Blood

- List the four main components of blood:
- State the function of each component:
- Describe how each blood cell is adapted for its function.

Blood Vessels

Complete the table below by placing the characteristics below into the correct blood vessel column.

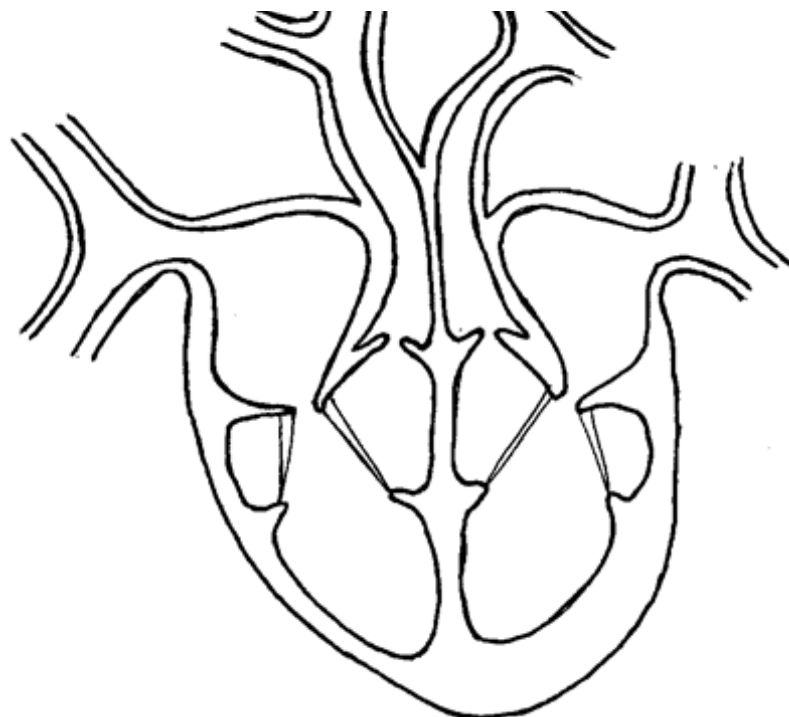
- Carry blood to the heart
- Carry blood away from the heart
- Allow gases and nutrients to move out of the blood.
- Contain low levels of oxygen and high levels of carbon dioxide.
 - Contain high levels of oxygen.
 - One cell thick.
 - Blood flows at high pressure.
- Have thick elastic walls to withstand high pressure.
- Contain valves to prevent backflow of blood.
 - Connect arteries and veins.

The Heart

- Annotate the diagram of the heart below with the following phrases:

- Pulmonary Vein
- Left ventricle
- Right Ventricle
- Left Atrium
- Right Atrium
- Vena Cava
- Aorta
- Aorta
- Blood from the lungs
- Blood to the lungs
- Blood from the body
- Blood to the body

- Shade the side which contains oxygenated blood in red
- Shade the side which contains deoxygenated blood in blue.



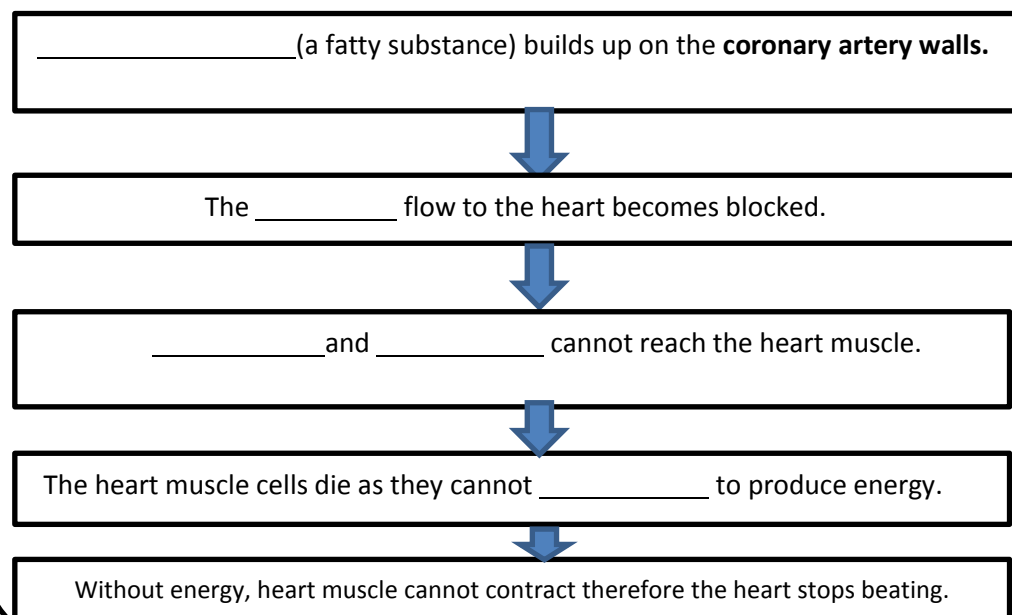
Double Circulation

What is meant by the term "double circulation"?

Heart Disease - State four risk factors for heart disease

Heart Disease and Heart Attacks

Complete the flow diagram below:



Arteries	Veins	Capillaries
Picture:	Picture:	Picture:

Questions

- Which vein does not carry deoxygenated blood?
- Which artery does not carry oxygenated blood?